SANYO

FILE NO.

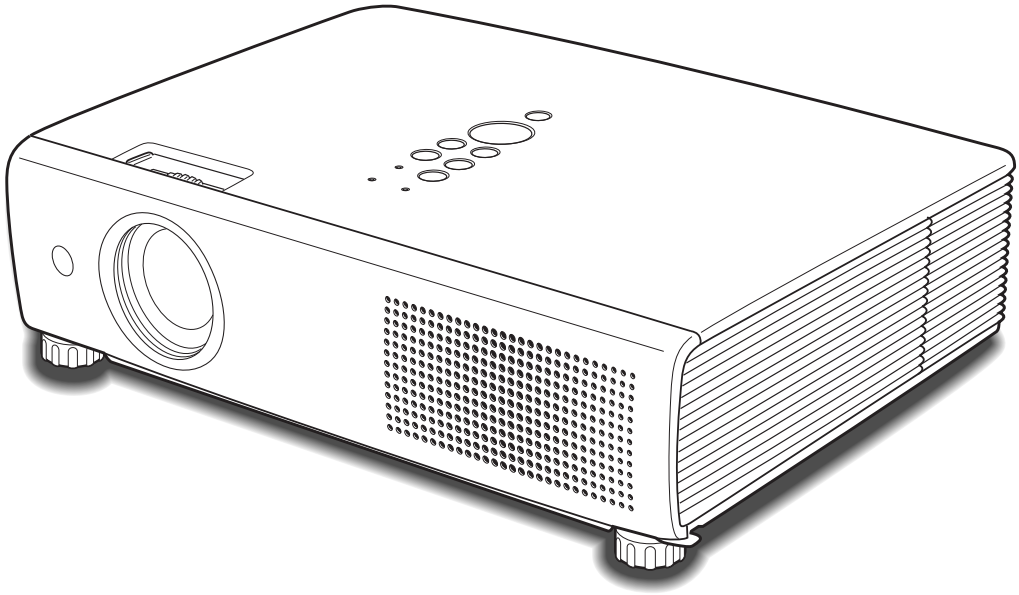
SERVICE MANUAL

Multimedia Projector

Model No. PLC-XU101

U.S.A, Canada,
Europe, U.K, Asia

Original Version



Chassis No. KL6-XU10100

Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.
If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.

PRODUCT CODE
1 122 352 20 (KL6AC)
1 122 353 20 (LL6AC)
1 122 353 22 (LL6CC)

REFERENCE NO. SM5110857-00

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Safety Instructions

Safety Precautions

WARNING:
The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line (⏦) in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.

2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.

3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.

DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PR OPERLY SECURED.

4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

Product Safety Notice

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of there parts must be made by exactly the same parts.

Service Personnel Warning

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing.
Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages (15kV - 25kV) at its starts.
Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

Specifications

Mechanical Information

Projector Type	Multi-media Projector
Dimensions (W x H x D)	13.15" x 3.07" x.9.13" (334 mm x 78 mm x 232 mm) (Not including adjustable feet)
Net Weight	7.5 lbs (3.3 kg)
Feet Adjustment	0˚ to approx. 9˚

Panel Resolution

LCD Panel System	0.8" TFT Active Matrix type, 3 panels
Panel Resolution	1,024 x 768 dots
Number of Pixels	2,359,296 (1,024 x 768 x 3 panels)

Signal Compatibility

Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
Scanning Frequency	H-sync. 15 kHz ~ 100 kHz, V-sync. 50 ~ 100 Hz

Optical Information

Projection Image Size (Diagonal)	Adjustable from 33" to 300"
Throw Distance	4.3'–32.8' (1.3 m–10.0 m)
Projection Lens	F1.7–2.1 lens with f26.7 mm–32.0 mm with manual zoom and focus
Projection Lamp	300 W

Interface

Video Input Jack	RCA Type x 1
S-Video Input Jack	Mini DIN 4 pin x 1
Audio Input Jacks	RCA Type x 2
Computer Input 1 Terminal	Analog RGB (Mini D-sub 15 pin) Terminal X 1
Computer Input 2 / Component Input Terminal	Analog RGB (Mini D-sub 15 pin) Terminal X 1
Computer/ Component Audio Input Jack	Mini Jack (stereo) x 1
Monitor Output	Analog RGB (Mini D-sub 15 pin) Terminal X 1
Service Port Connector	Mini DIN 8 pin x 1
Audio Output Jack	Mini Jack (stereo) x 1 (Variable)

Audio

Internal Audio Amp	1.0W RMS
Built-in Speaker	1 speaker, ø1.1" (28mm)

Power

Voltage and Power Consumption	AC 100 ~ 120 V (4.9A Max. Ampere), 50 / 60 Hz (The U.S.A and Canada)
	AC 200 ~ 240 V (2.2A Max. Ampere), 50 / 60 Hz (Continental Europe and The U.K.)

Operating Environment

Operating Temperature	41 ˚F ~ 95 ˚F (5 ˚C ~ 35 ˚C)
Storage Temperature	14 ˚F ~ 140 ˚F (-10˚C ~ 60 ˚C)

Remote Control

Battery	AA or LR6 1.5V ALKALINE TYPE x 2
Operating Range	16.4' (5m) / ±30˚
Dimensions	1.9"(W) x 0.87"(H) x 5.7"(D) (49mm x 22mm x 145.3mm)
Net Weight	3.53 oz (100 g) (including batteries)

- The specifications are subject to change without notice.
- LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.

c UL US LISTED

This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

Circuit Protections

This projector provides the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

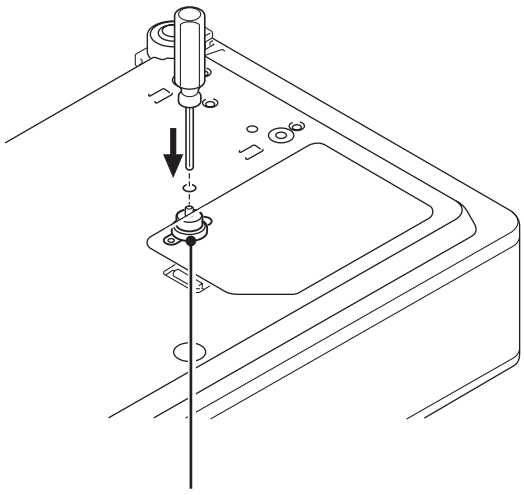
Thermal switch

There is the thermal switch (SW902) inside of the projector to detect the internal temperature rising abnormally. When the internal temperature reaches near 100˚C, the thermal switch opens to stop the operation of the power supply circuit.
The thermal switch cannot be reset itself automatically even if the internal temperature becomes normal. Reset the thermal switch following to the below procedure.

How to reset the thermal switch

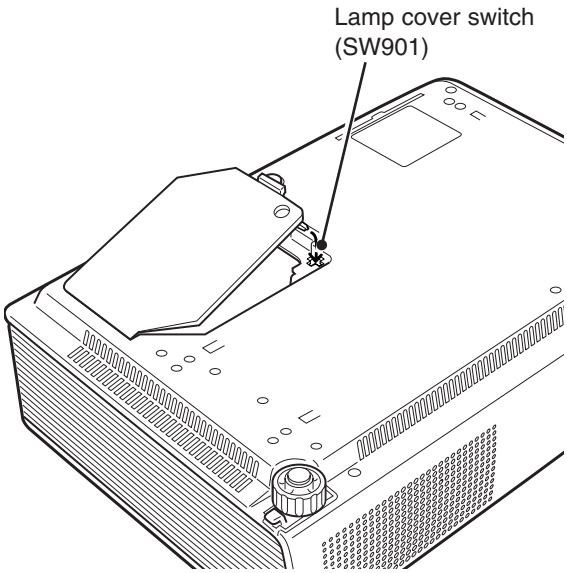
1. Insert the sharp tool like a screwdriver into a hole on the cabinet from the cabinet bottom.
2. Press the reset button on the thermal switch with the screwdriver.

CAUTION:
Before press the reset button, make sure that the AC cord must be disconnected from the AC outlet.


Thermal switch (SW902)

Lamp cover switch

The lamp cover switch (SW901) cuts off the drive signal to the lamp circuit when the lamp cover is removed or not closed completely. After opening the lamp cover for replacing the lamp ass'y, place the lamp cover correctly otherwise the projector can not turn on.



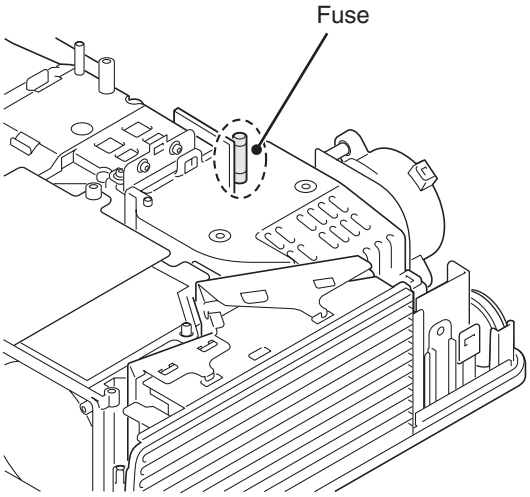
Fuse

A fuse is located inside of the projector. When the POWER indicator is not lightning, the fuse may be opened. Check the fuse as following steps.
The fuse should be used with the following type;

Fuse Part No.: 323 025 1204
TYPE 8A 250V FUSE
LITTLE FUSE INC. TYPE 21500.8

How to replace the fuse

1. The fuse is placed on the filter board under the main board. Remove the cabinet top and main board.
2. Take the fuse off, and replace the new one with the specified type.



Warning temperature and power failure protection

The projector will be automatically turned off when the internal temperature of the projector is abnormally high, or the cooling fans stop spinning, or the power supplies in the projector are failed.

- If the WARNING indicator is flashing, it may detect the abnormal temperature inside the projector. Check the following possible causes and wait until the WARNING indicator stops flashing, and then try to turn on the projector.
- If the WARNING indicator lights red, it may defect the cooling fans or power supply circuits. Check fans operation and power supply lines referring to the chapter “Power supply & protection circuit” in the Chassis Block Diagram section.

Possible causes

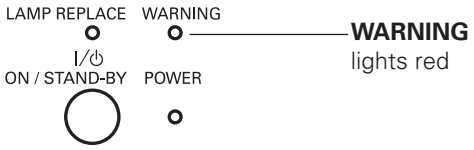
- Air filters are clogged with dust particles. Remove dust from the air filters by following instructions in the “Air filter care and cleaning” below.
- Ventilation slots of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
- Check if projector is used at higher temperature place (Normal operating temperature is 5 to 35 ˚C or 41 to 95˚F)

The projector is shut down and the WARNING indicator lights red.

When the projector detects an abnormal condition, it is automatically shut down to protect the inside of the projector and the WARNING indicator lights red. In this case, unplug the AC power cord and reconnect it, and then turn the projector on once again to verify operation. If the projector cannot be turned on and the WARNING indicator still lights red, it may defect the cooling fans or power supply circuits.

CAUTION
DO NOT LEAVE THE PROJECTOR WITH THE AC POWER CORD CONNECTED UNDER AN ABNORMAL CONDITION. IT MAY RESULT IN FIRE OR ELECTRIC SHOCK.

Top Control



Maintenance

Cleaning the Filter

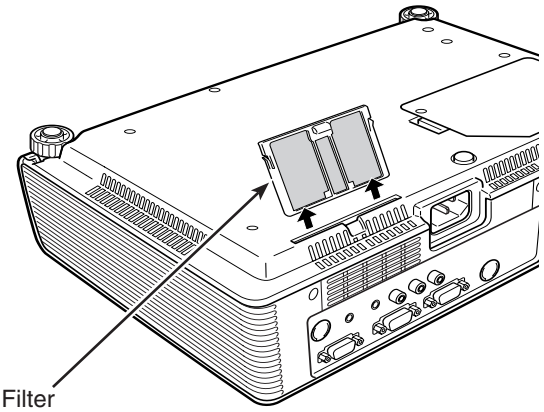
Filter prevents dust from accumulating on the optical elements inside the projector. Should the filter becomes clogged with dust particles, it will reduce cooling fans' effectiveness and may result in internal heat buildup and adversely affect the life of the projector. If a "Filter warning" icon appears on the screen, clean the filter immediately. Clean the filter by following the steps below.

1 Turn off the projector, and unplug the AC power cord from the AC outlet.

2 Turn the projector over and remove the filter by pulling the latches upward.

3 Gently clean the filter by using a brush or rinse it softly.

4 When rinsing the filter, dry it well. Replace the filter properly. Make sure that the filter is fully inserted to the projector.



Filter
Pull up and remove.

CAUTION
Do not operate the projector with the filter removed. Dust may accumulate on the optical elements degrading picture quality.
Do not put anything into the air vents. Doing so may result in malfunction of the projector.

✔**Note**:
• When reinserting this filter, be sure that the slit part is facing the outer side.

RECOMMENDATION
We recommend avoiding dusty/smoky environments when you operate the projector. Usage in these environments may cause poor image quality.
When using the projector under dusty or smoky conditions, dust may accumulate on a lens, LCD panels, or optical elements inside the projector degrading the quality of a projected image. When the symptoms above are noticed, contact your authorized dealer or service station for proper cleaning.

Resetting the Filter Counter

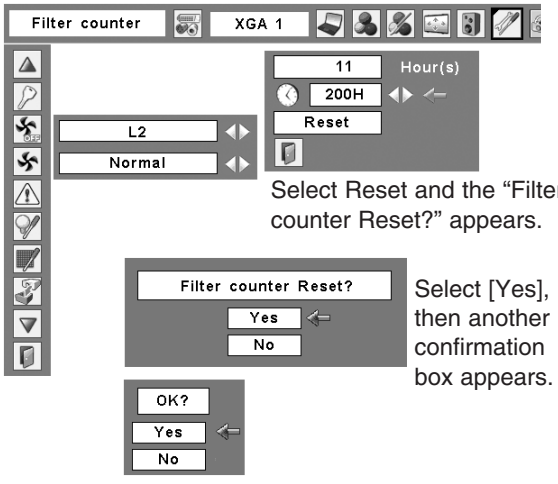
Be sure to reset the Filter counter after cleaning or replacing the filter.

1 Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red frame pointer to the Setting Menu icon.

2 Use the Point ▲▼ buttons to move the red frame pointer to Filter counter and then press the SELECT button. A dialog box appears showing the total accumulated time of the filter use, a timer setting option, and the reset option. Select Reset and the "Filter counter Reset?" appears. Select [Yes] to continue.

3 Another confirmation dialog box appears, select [Yes] to reset the Filter counter.

Filter counter



Select Reset and the "Filter counter Reset?" appears.

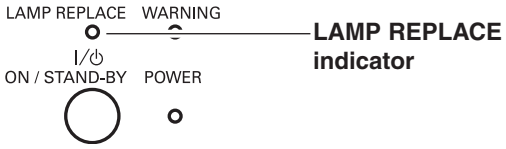
Select [Yes], then another confirmation box appears.

Lamp Replacement

When the projection lamp of the projector reaches its end of life, the Lamp replacement icon appears on the screen and LAMP REPLACE indicator lights yellow. Replace the lamp with a new one promptly. The timing when the LAMP REPLACE indicator should light is depending on the lamp mode.

WARNING:
TURN OFF THE UV LAMP BEFORE OPENING THE LAMP COVER

Top Control



LAMP REPLACE indicator

Lamp replacement icon

✔**Note:**
- The Lamp replacement icon will not appear when the Display function is set to “Off”, during “Freeze”, or “No show”.

CAUTION

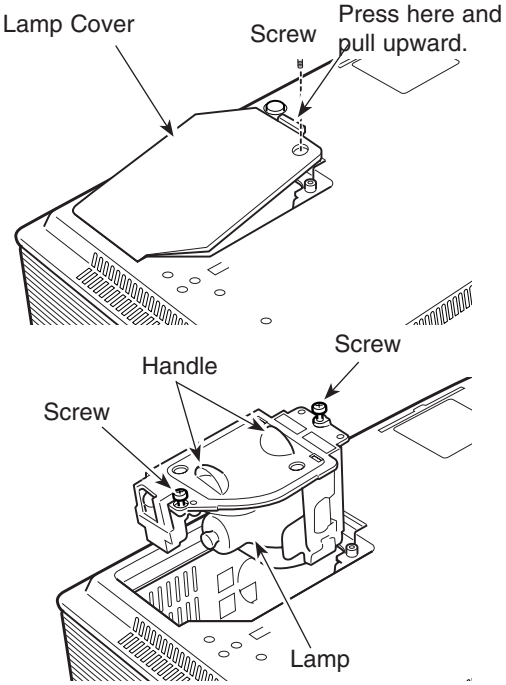
Allow a projector to cool for at least 45 minutes before you open the Lamp cover. The inside of the projector can become very hot.

CAUTION

For continued safety, replace with a lamp of the same type. Do not drop a lamp or touch a glass bulb! The glass can shatter and may cause injury.

Follow these steps to replace the lamp.

1. Turn off the projector and unplug the AC power cord. Let the projector cool for at least 45 minutes.
2. Remove the one (1) screw on the lamp cover and open the lamp cover.
3. Remove the two (2) screws that secure the lamp. Lift the lamp out of the projector by using the handle.
4. Replace the lamp with a new one and secure the two (2) screws. Make sure that the lamp is set properly. Close the lamp cover.
5. Connect the AC power cord to the projector and turn on the projector.
6. Reset the lamp counter.
See “Resetting the Lamp Counter” on the next page.



ORDER REPLACEMENT LAMP

Type No.	**POA-LMP111**
Service Parts No.	**610 333 9740**

Resetting the Lamp Counter

Be sure to reset the Lamp counter after the lamp is replaced. When the Lamp counter is reset, the LAMP REPLACE indicator stops lighting and the Lamp replacement icon disappears.

1 Press the MENU button to display the On-Screen Menu. Use the Point ◀ ▶ buttons to move the red framed pointer to the Setting Menu icon.

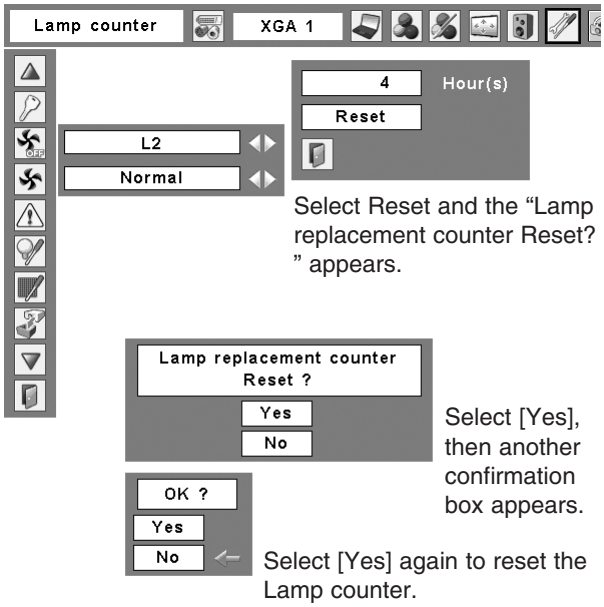
2 Use the Point ▲▼ buttons to move the red framed pointer to Lamp counter and then press the SELECT button. A dialog box appears showing the total accumulated time of the lamp usage and the reset option. Select Reset and the "Lamp replacement counter Reset?" appears. Select [Yes] to continue.

3 Another confirmation dialog box appears, select [Yes] to reset the Lamp counter.

✔***Note:***

- Do not reset the Lamp counter without implementing lamp replacement. Be sure to reset the Lamp counter only after replacing the lamp.

Lamp counter



Select Reset and the "Lamp replacement counter Reset? " appears.

Select [Yes], then another confirmation box appears.

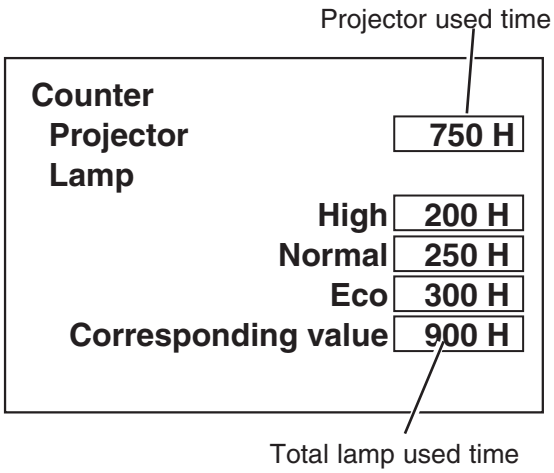
Select [Yes] again to reset the Lamp counter.

How to check Lamp Used Time

The LAMP REPLACE indicator will light yellow when the total lamp used time (Corresponding value) reaches 3,000 hours. This is to indicate that lamp replacement is required.
The total lamp used time is calculated by using the below expression,
Total lamp used time (Corresponding value) = **T***eco* + (**T***normal* x 1.2) + (**T***high* x 1.5)

T*eco*: used time in the Eco mode
T*normal* : used time in the Normal mode
T*high* : used time in the High mode

You can check the lamp used time following to the below procedure.
1 Press and hold the **ON/STAND-BY** button on the projector for more than 20 seconds.
2 The projector used time and lamp used time will be displayed on the screen briefly as follows.



Cleaning

After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit.

Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

Cleaning with air spray

1. Remove the cabinet top following to “Mechanical Disassemblies”.
2. Clean up the LCD panel and polarizing plate by using the air spray from the cabinet top opening.

Caution:
Use a commercial (inert gas) air spray designed for cleaning camera and computer equipment. Use a resin-based nozzle only. Be vary careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.

Disassembly Cleaning

Disassembly cleaning method should only be performed when the unit is considerable dirty and cannot be sufficiently cleaned by air spraying alone.
Be sure to readjust the optical system after performing disassembly cleaning.

1. Remove the cabinet top and main units following to “Mechanical Disassemblies”.
2. Remove the optical base top following to “Optical Unit Disassemblies”. If the LCD panel needs cleaning, remove the LCD panel unit following to “LCD panel replacement”.
3. Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

Caution:
The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.
Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

Security Function Notice

Security Function Disable

This projector provides security functions such as "Key lock", "PIN code lock" and "Logo PIN code lock". When the projector has set these security function on, you are required to enter correct PIN code to use the projector. If you do not know the correct PIN code to the projector, the projector can no longer be operated or started. In this case, you must reset those function first according to the resetting procedure described below and then check up on the projector.

Function	Description
Key lock	Locks operation of the top control or the remote control. If the Key lock is enabled with top control lock, the projector can no longer be started. *Initial setting: Key lock function is disabled*
PIN code lock	Prevents the projector from being operated by an unauthorized person. *Initial code: "1234"*
Logo PIN code lock	Prevents an unauthorized person for changing the start-up logo and captured image on the screen. *Initial code: "4321"*

Resetting procedure

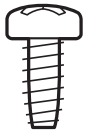
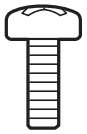
1. Disconnect the AC power cord from the AC outlet.
2. As pressing the **SELECT** button on the projector, connect the AC power cord into an AC outlet again. Keep pressing the **SELECT** button until the POWER indicator lights continuously.

   This is complete the resetting of the security function. The PIN code lock and Logo PIN code lock are reset as the initial PIN code at the factory and the Key lock function is disabled.

Please refer to the owner's manual for further information of the security functions.

Mechanical Disassembly

Mechanical disassembly should be made following procedures in numerical order.
Following steps show the basic procedures, therefore unnecessary step may be ignored.
Caution:
The parts and screws should be placed exactly the same position as the original otherwise it may cause loss of performance and product safety.

Screws Expression (Type Diameter x Length) mm	
T type	M Type
	

1 Cabinet Top, Front and R/C Board removal

1. Remove the cabinet top (Before removing the cabinet top, open the Lens cover fully).
2. Remove the Cabinet front.
3. Remove the R/C board.

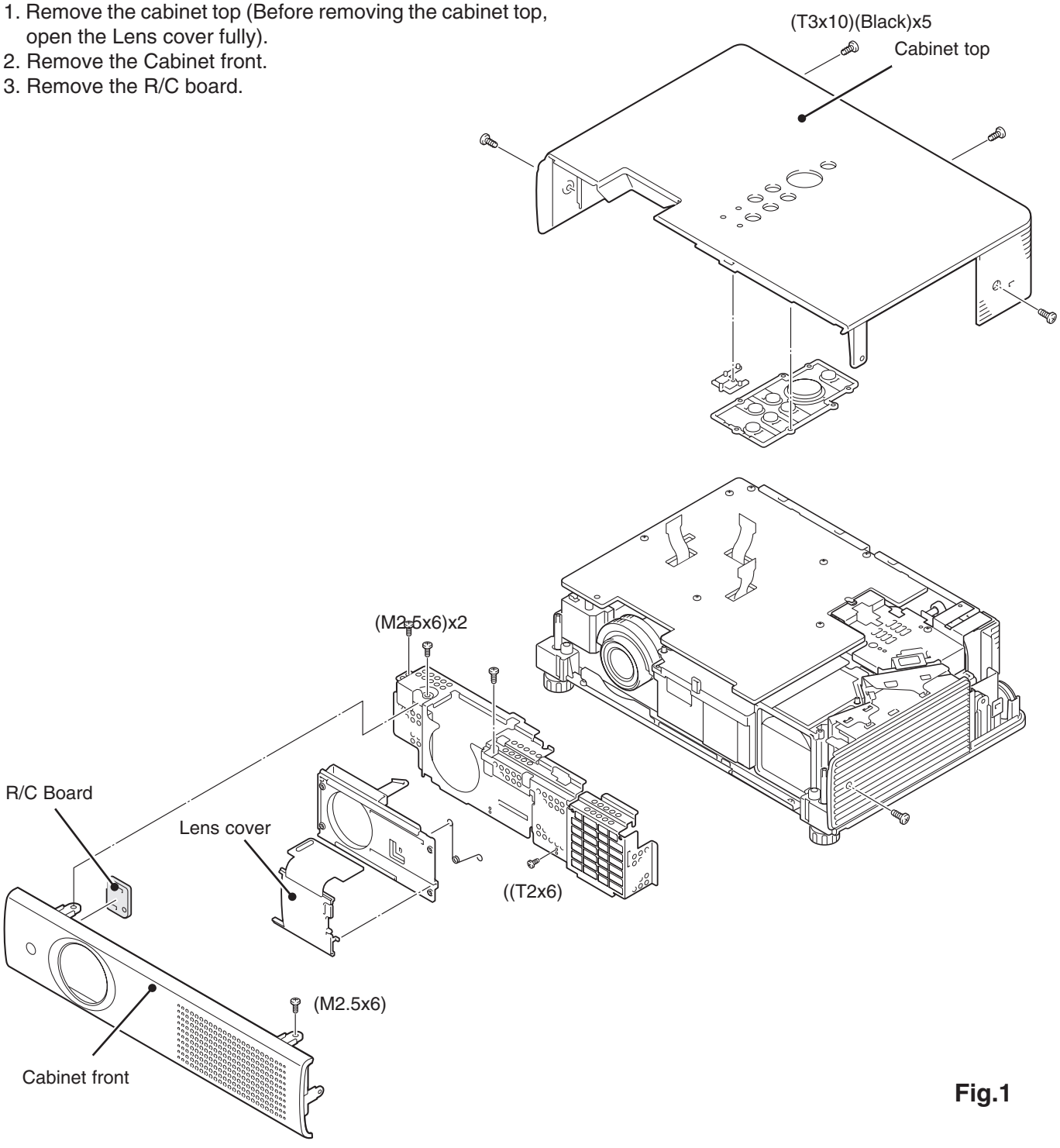


Fig.1

2 Main, AV Board, Rear Panel and Fans Board removal

1. Remove the Main board.
2. Remove the Rear panel.
3. Remove AV board.
4. Remove fans (FN901, FN902).

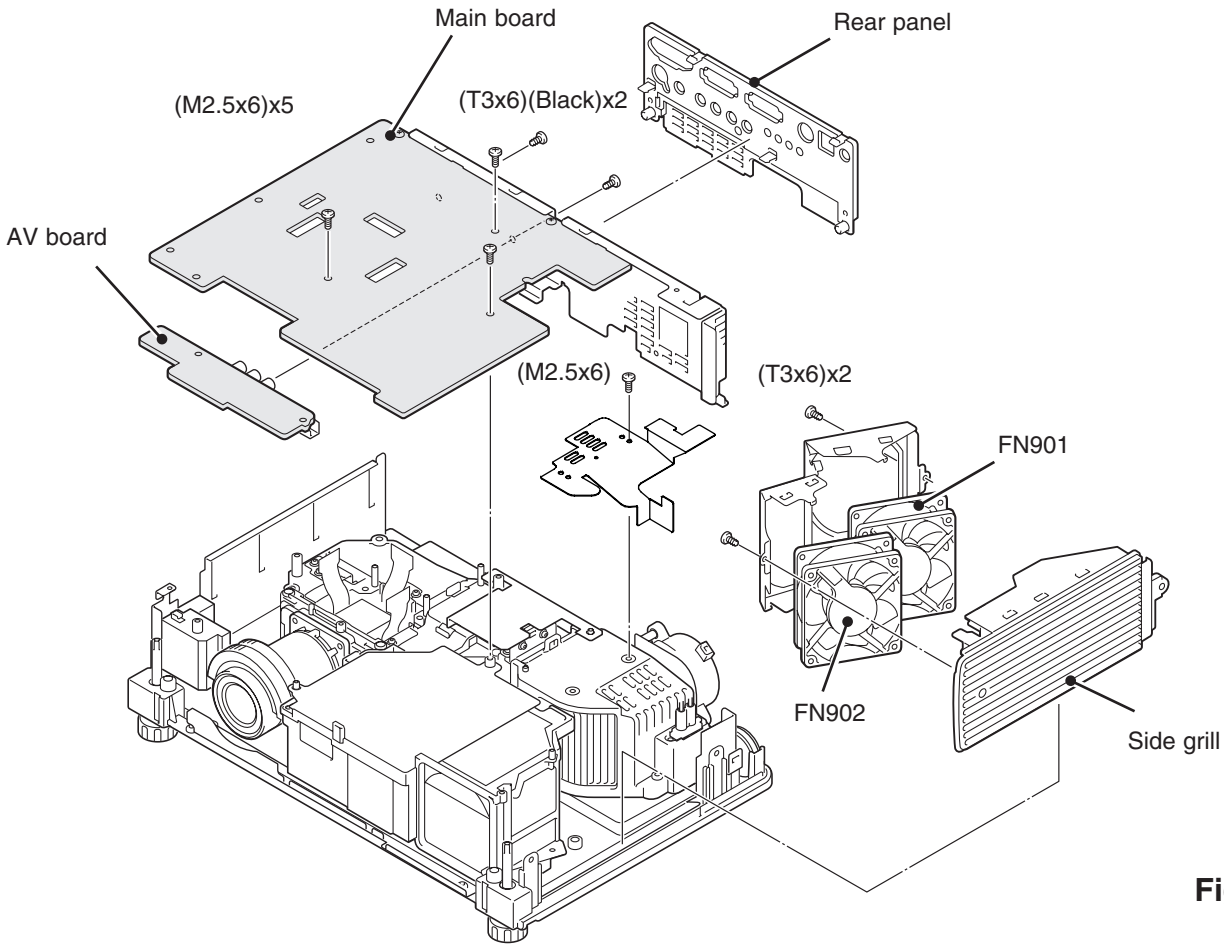


Fig.2

3 Fan (FN907) removal

1. Disconnect the lamp ballast socket and remove fan (FN907)

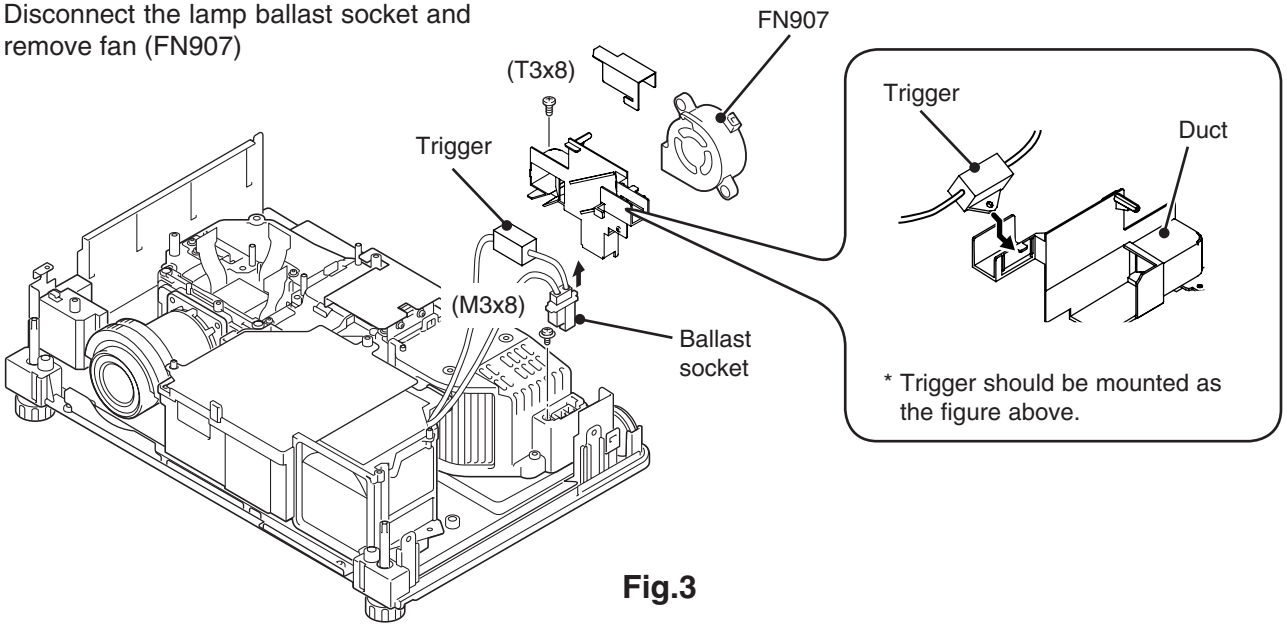


Fig.3

4 Optical unit, Temp., Line Filter board,Fans removal

1. Remove the Optical unit.
2. Remove Screw (T3x8) and 4 hooks on the duct and then remove the Duct.
3. Remove the Line filter board and Temp. board.
4. Remove fans and SP901.

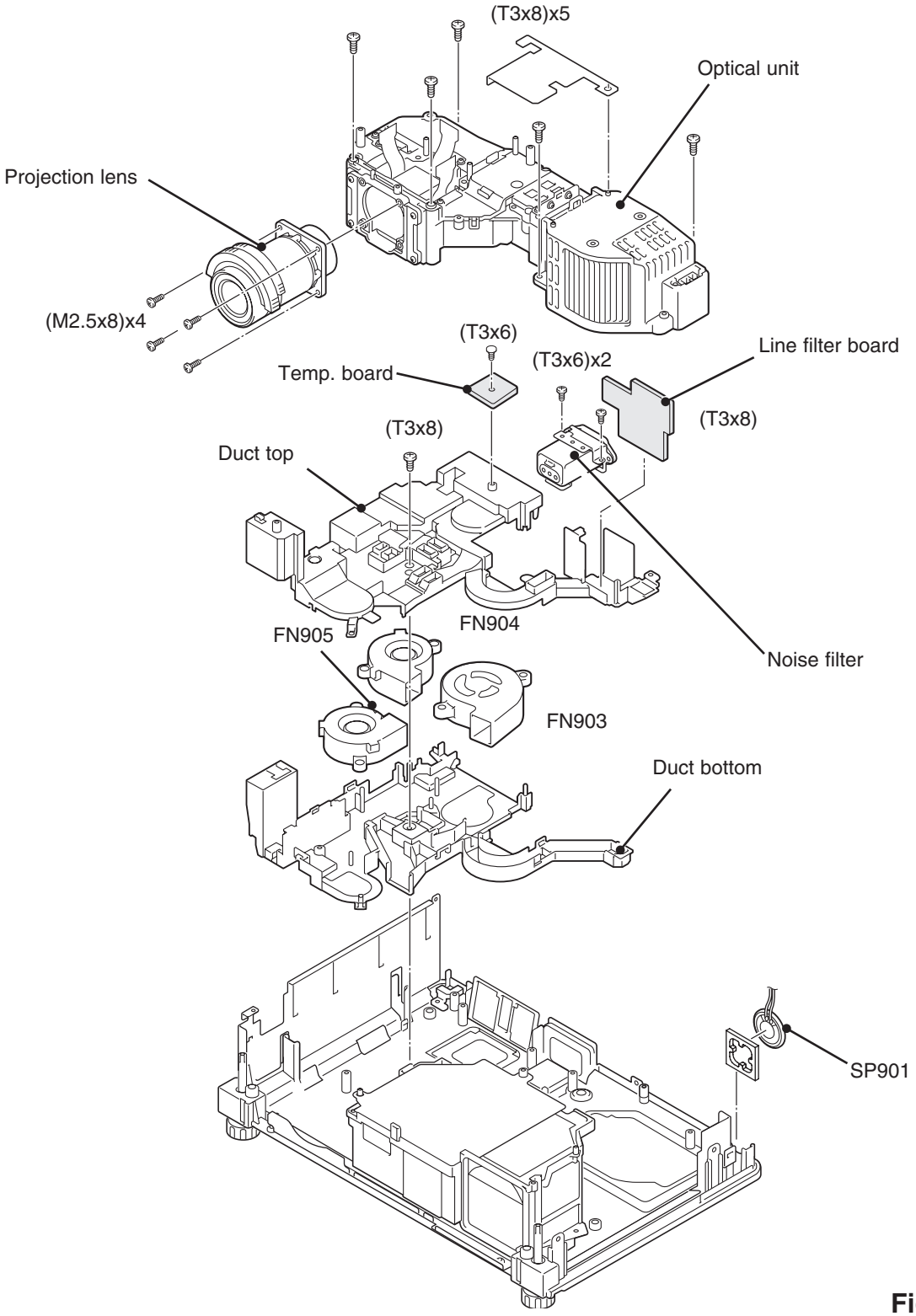


Fig.3

5 Power, Ballast, Lamp Cover Sw Board, Thermal Sw(SW902) removal

1. Remove the Power board.
2. Remove the Ballast board.
3. Remove the Lamp cover switch board and thermal switch (SW902).

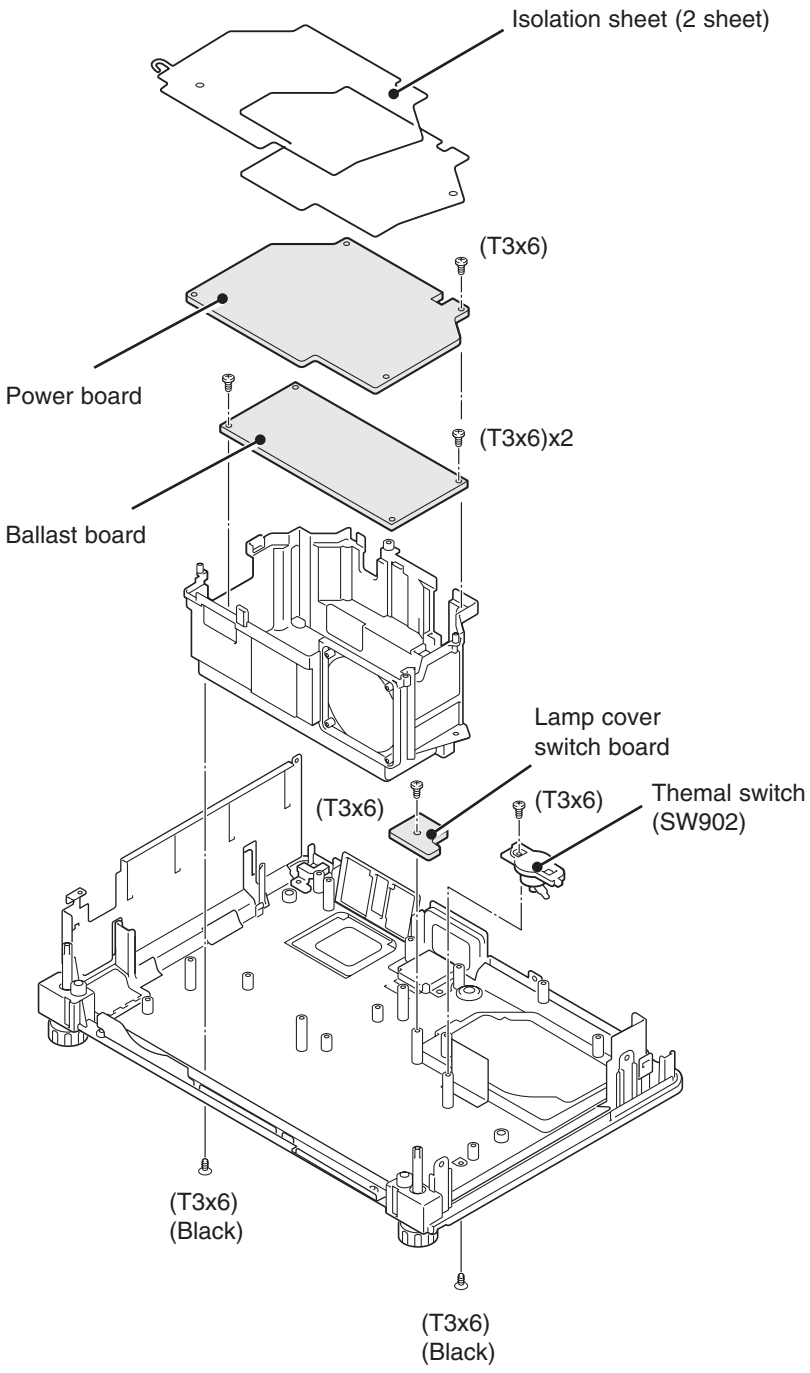


Fig.4

Optical Parts Disassembly

Before taking this procedure, remove Cabinet Top , Cabinet Front and Main Board following to the “Mechanical Disassembly”.
Disassembly requires a 2.0mm hex wrench.

1 Projection lens disassembly

Note: The optical unit should be removed from the cabinet bottom before removing the projection lens.

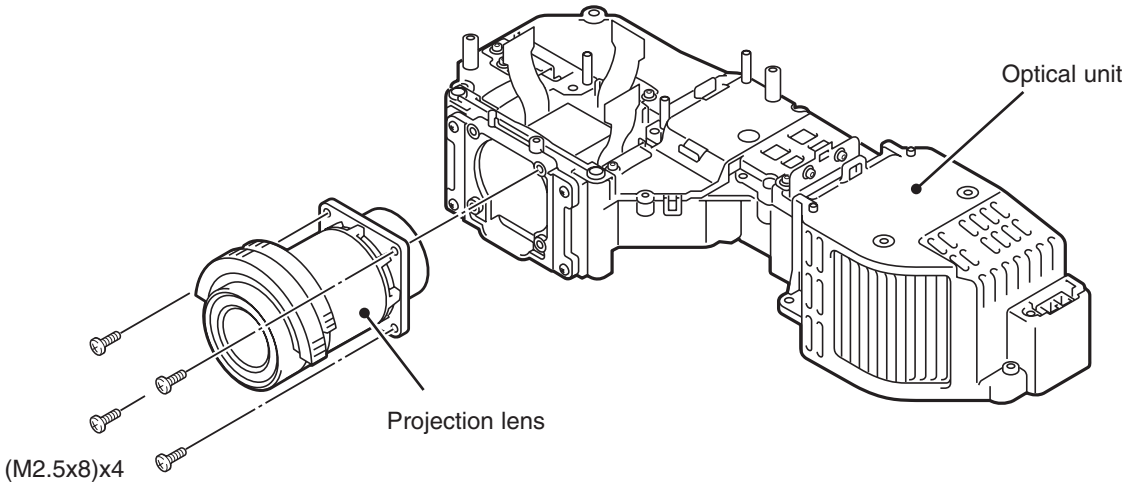


Fig.1

2 Integrator lens-in disassembly

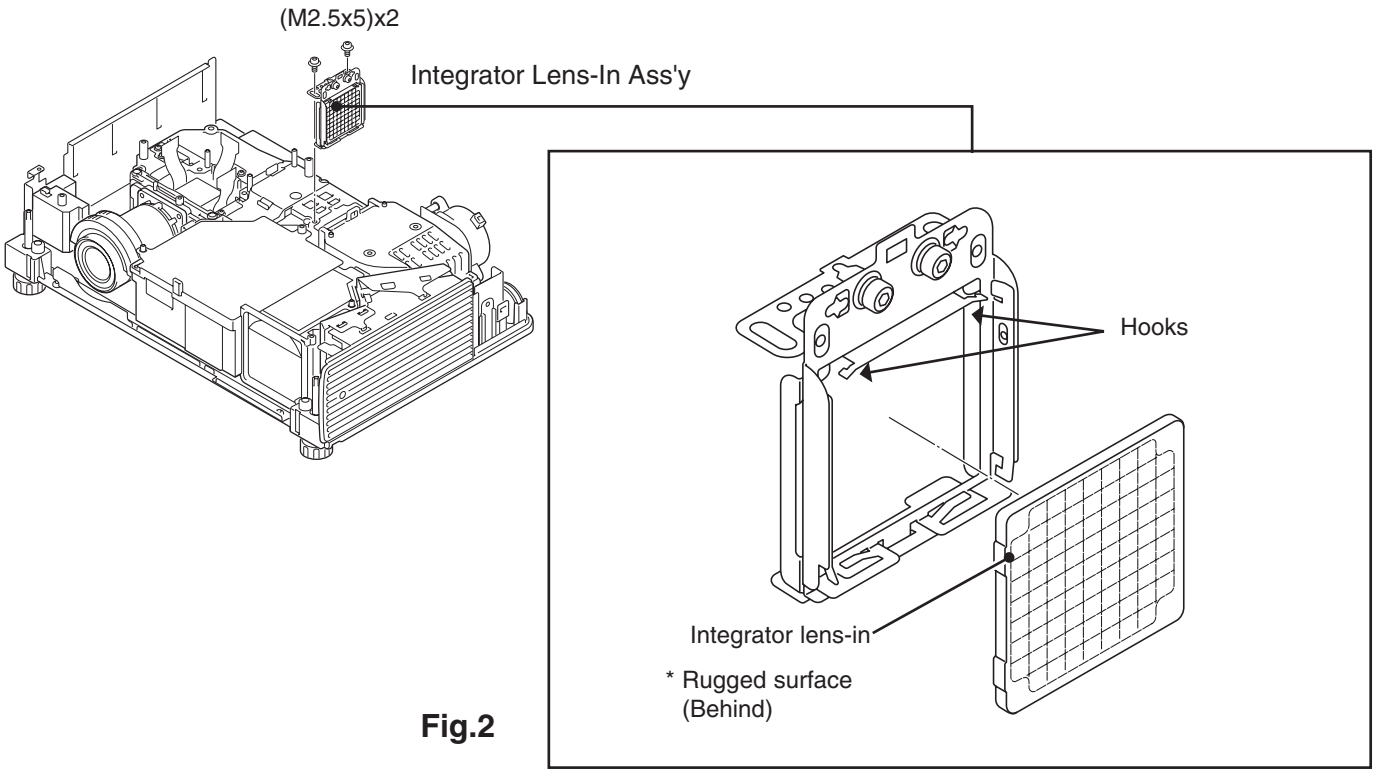


Fig.2

3 Relay lens disassembly

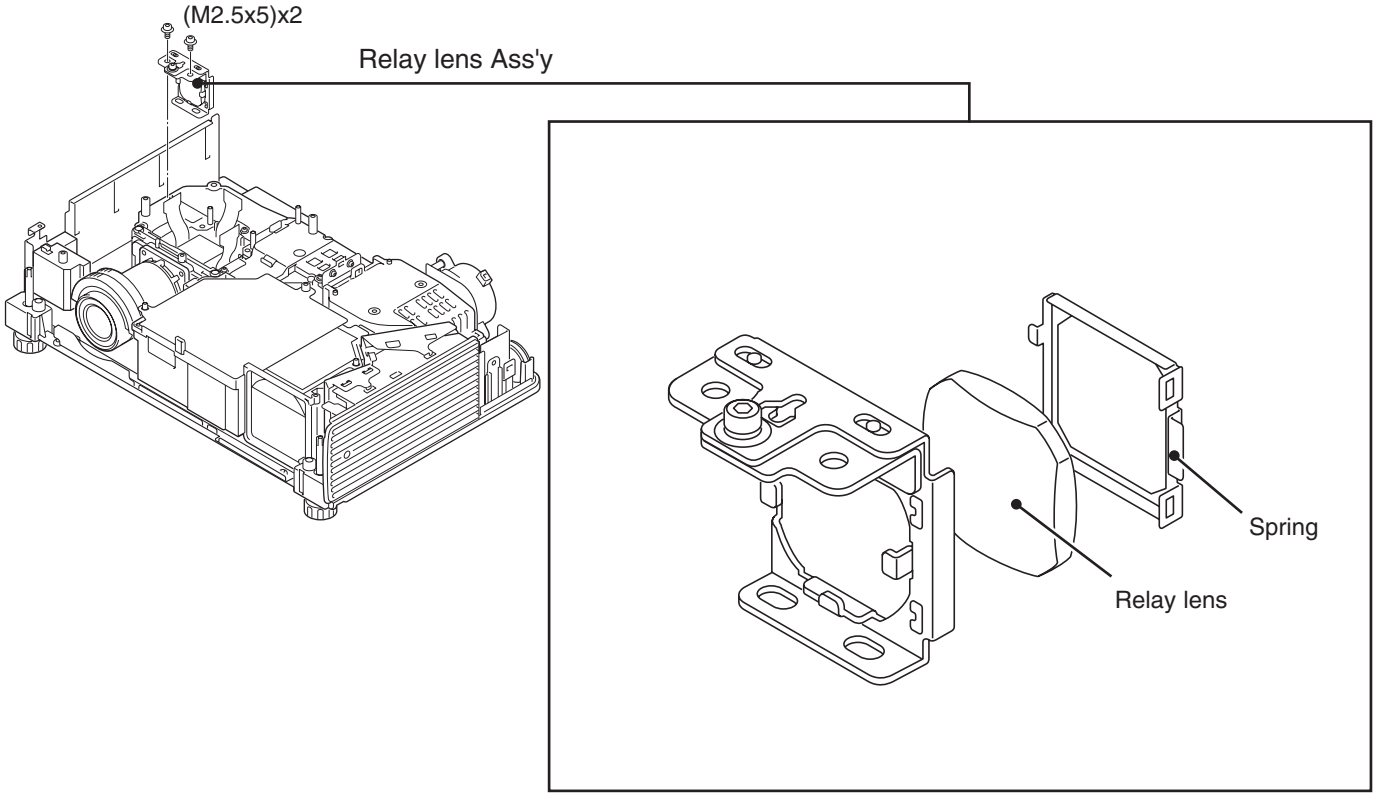


Fig.3

4 Polarized glass-in disassembly

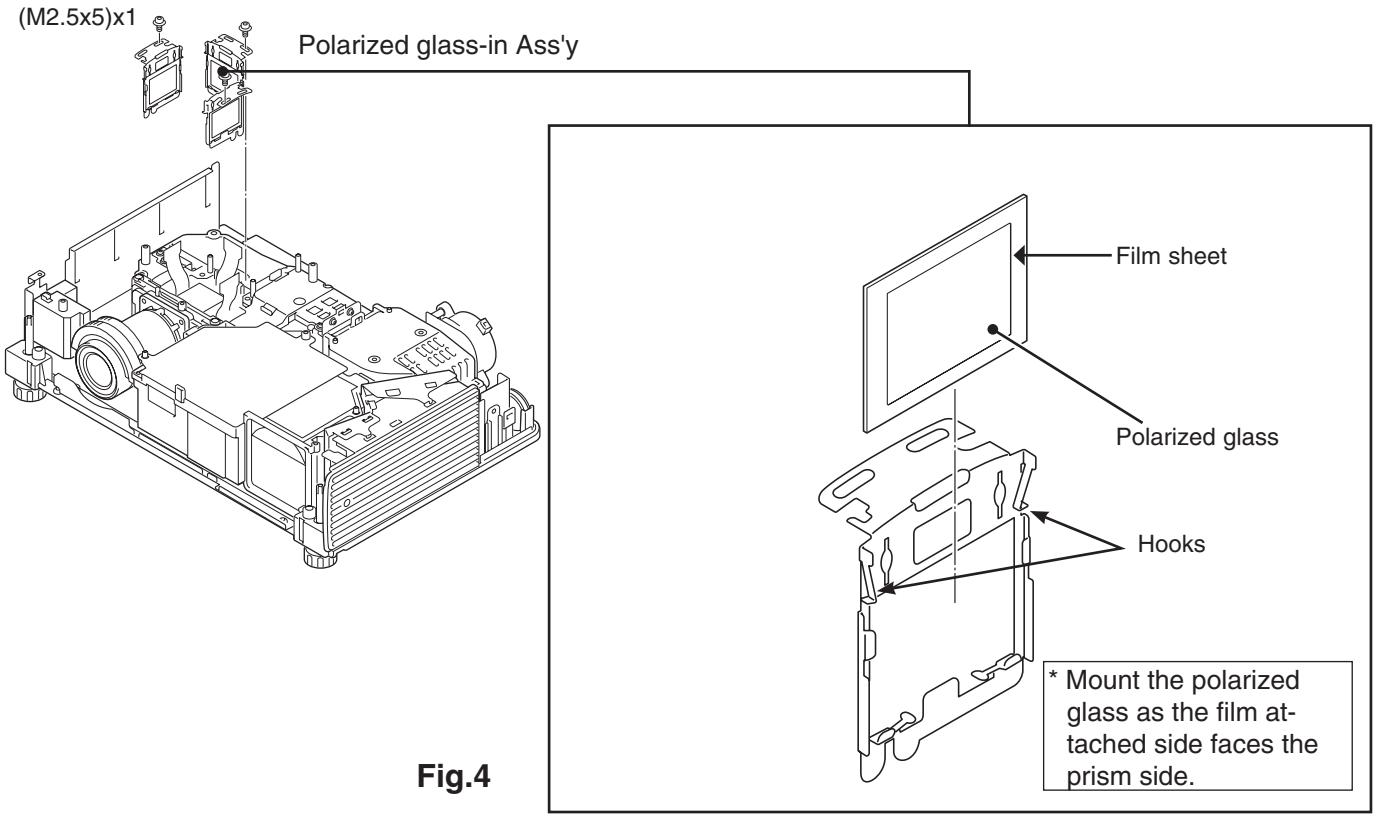


Fig.4

5 LCD Panel/Prism Ass'y removal

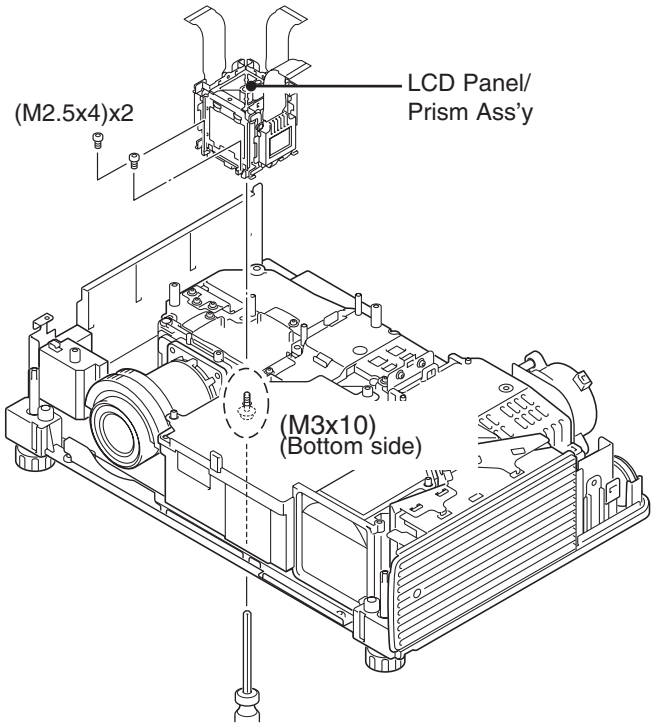


Fig.5-1

IMPORTANT NOTICE on LCD Panel/Prism Ass'y Replacement

LCD panels used for this model can not be replaced separately. Do not disassemble the LCD Panel/Prism Ass'y. These LCD panels are installed with precision at the factory. When replacing the LCD panel, should be replaced whole of the LCD panels and prism ass'y at once.

After replacing LCD Panel/Prism ass'y, please check the following points.

- Check that there is no color shading at the top, bottom, left or right of the screen. If there is, try to remove the shading following to the chapter "Optical Adjustment".
- Check the white balance. If it needs the adjustment, adjust the white balance following to the "White Balance Adjustment" , "Gamma Adjustment" and "Common Centre Adjustment" in the chapter "Electrical Adjustment".
- Check the white uniformity on the screen.
  If you find the color shading at the some part of the screen, it needs to take the color shading adjustment. This adjustment should be performed by a computer and it also requires a special software "Color Shading Correction". The software will be supplied separately and can be ordered as follows;

COLOR SHADING CORRECTION Ver. 4.00
Service Parts No. 645 075 9611

Panel Type Check

There are 2 types of LCD Panel/Prism Ass'y for this model. Either L-Type or R-Type LCD Panel/Prism Ass'y is used on the projector. Check which type of LCD Panel/Prism Ass'y is used with the figure below.
When replacing the LCD Panel/Prism Ass'y, you need to take "Panel Type Check and Setting" on the Electrical Adjustment for the replaced LCD Panel/Prism Ass'y.
The gamma-characteristics is different between L-Type and R-Type LCD Panel/Prism Ass'y.

How to check the type of LCDPanel/Prism Ass'y
Check the printed number on the flat cable of the G-LCD Panel.

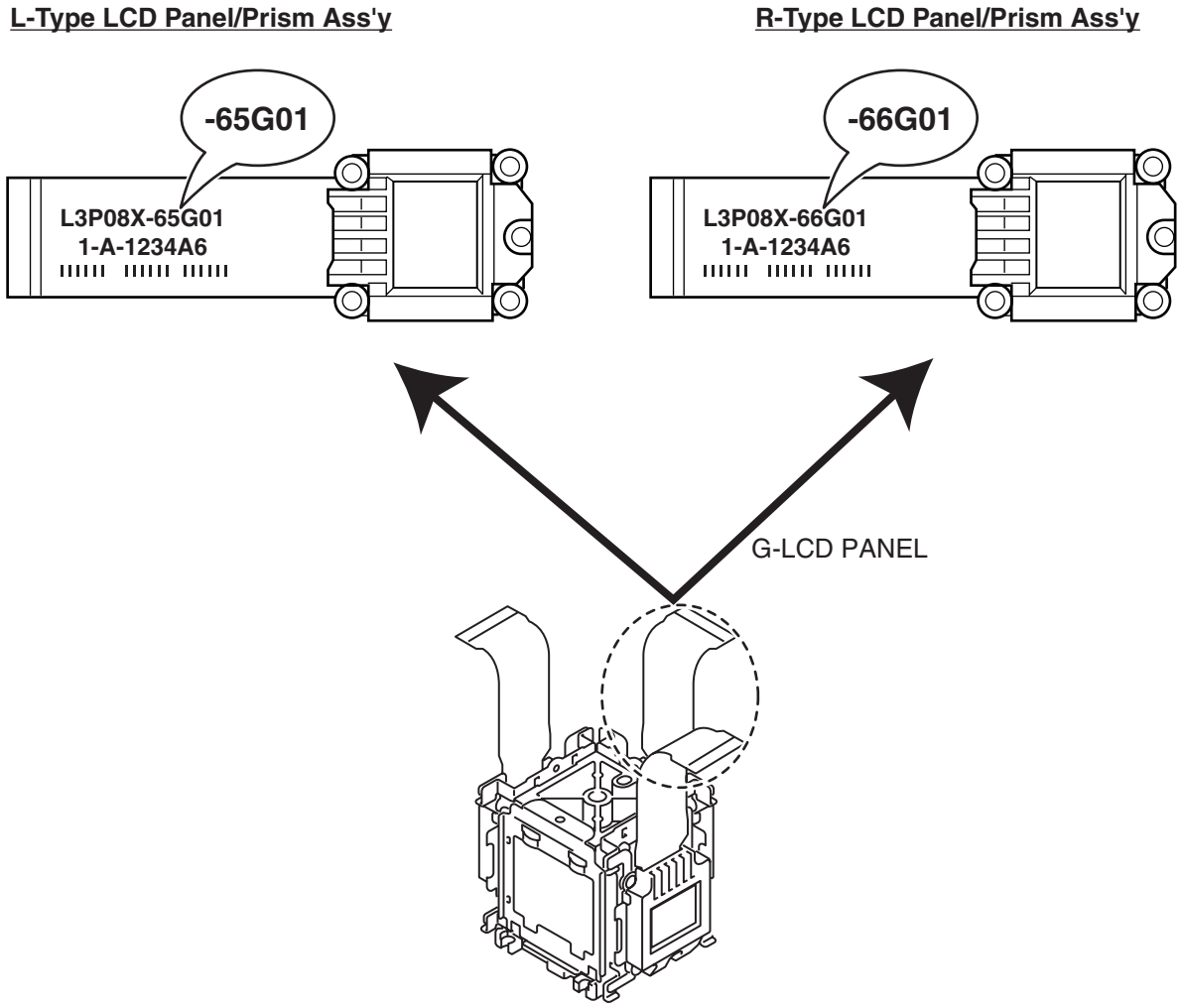


Fig.5-2

6 Polarized glass, Pre-polarized glass removal

* Mount the polarized glasses as the film attached side faces the LCD panel side.

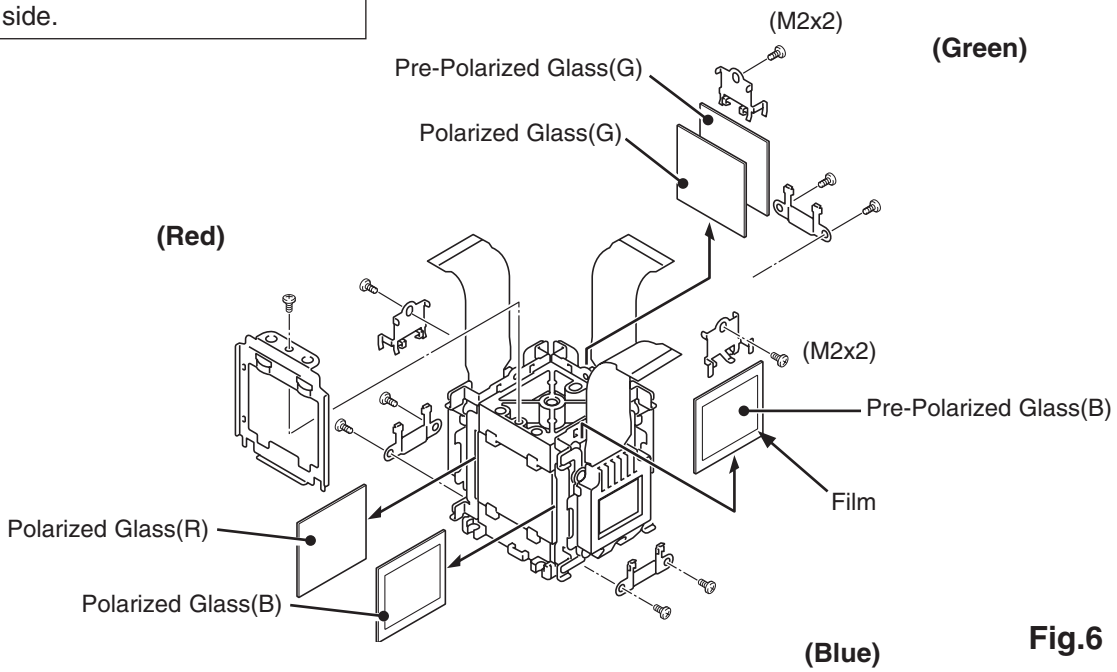


Fig.6

7 Optical unit top removal

1. Remove the Optical top A and Optical Top B.

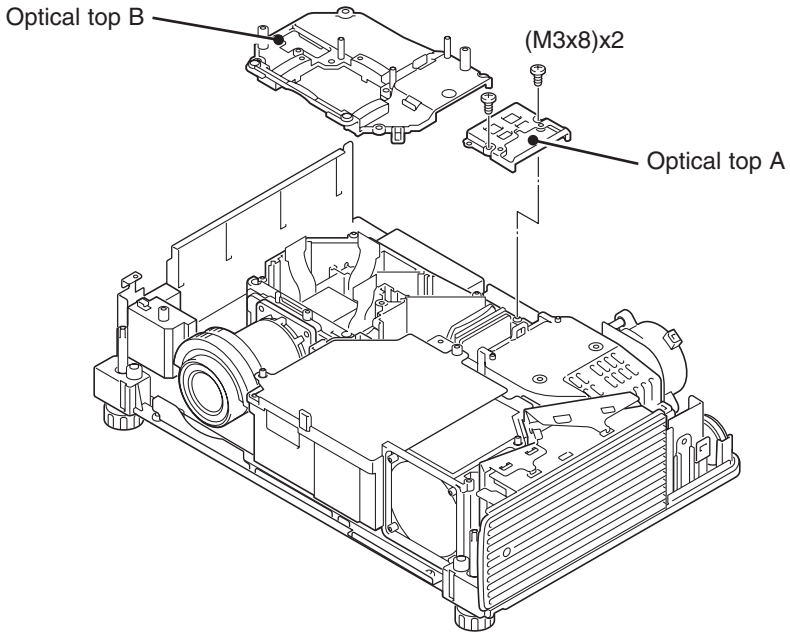


Fig.7

8 Locations and Directions

When mounting or assembling the optical parts in the optical unit, the parts must be mounted in the specified location and direction as shown in figure below.

No.	Parts Name
1	Integrator lens (OUT)
2	Prism beam splitter (PBS)
3	Condenser lens (OUT)
4	Dichroic mirror (B)
5	Dichroic mirror (G)
6	Condenser lens (G)
7	Relay Lens (IN)
8	Mirror (R)
9	Condenser lens (R)
10	Condenser lens (B)
11	Mirror (B)

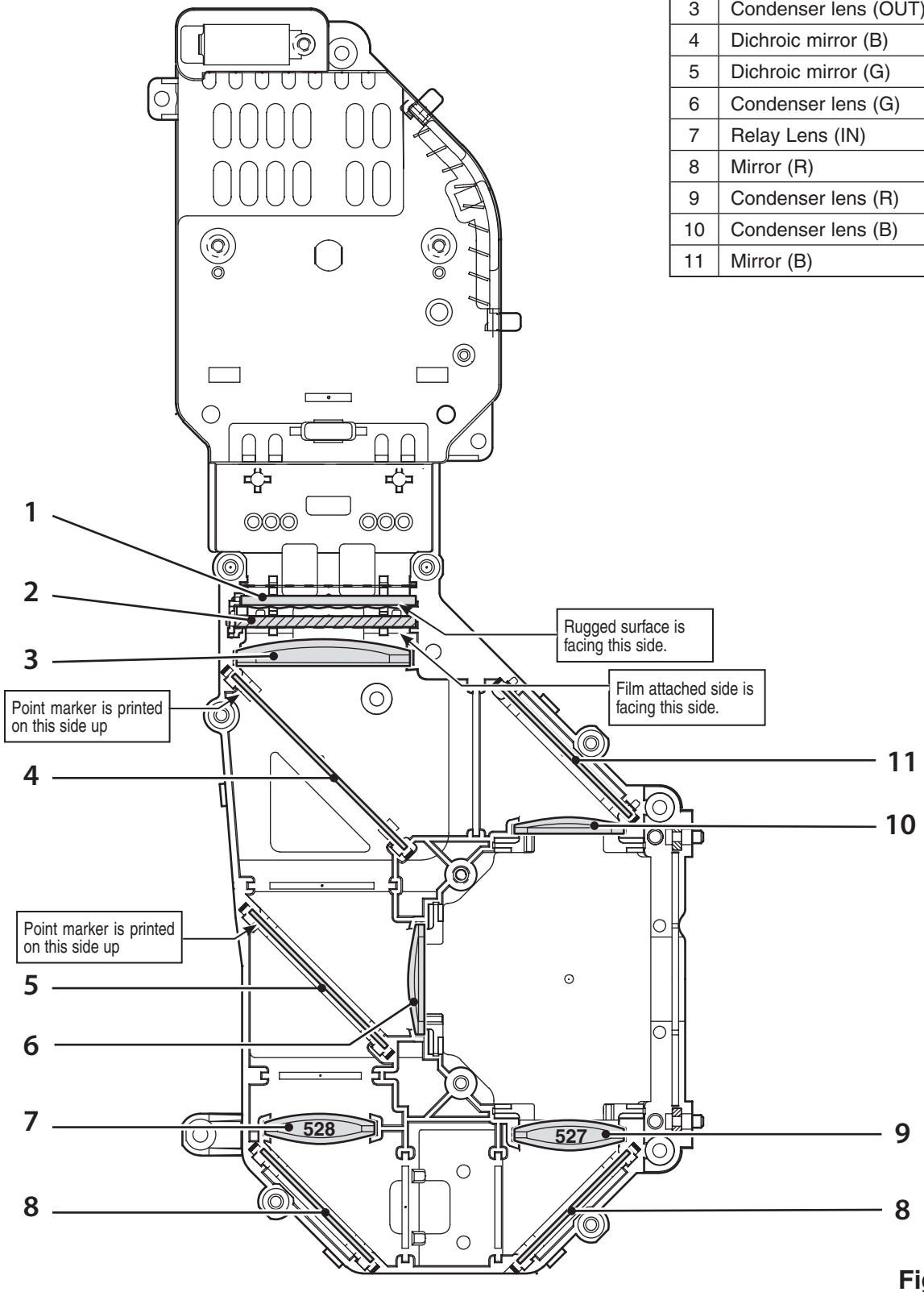


Fig.8

Adjustments

Adjustments after Parts Replacement

● : Adjustment necessary ❍ : Check necessary

		Disassembly / Replaced Parts							
		LCD/ Prism Ass'y	Integrator Lens (OUT)	Relay Lens (OUT)	Polarized Glass			Power Board	Main Board
					R	G	B		
Optical Adjustments	Contrast Adjustment								
	R-Contrast adjustment				●				
	G-Contrast adjustment					●			
	B-Contrast adjustment						●		
	Integrator lens adjustment	❍	●						
	Relay lens-out adjustment	❍		●					
Electrical Adjustments	Fan control adjustment							●	●
	Panel type check and setting	●							●
	Auto calibration adjustment [PC]								●
	Auto calibration adjustment [Component]								●
	Auto calibration adjustment [Video]								●
	Common center adjustment	●							●
	50% white adjustment [PC]	●							●
	White balance adjustment [PC]	❍							❍
	50% white adjustment [Video]	●							●
	White balance adjustment [Video]	❍							❍
	White uniformity adjustment	❍							❍

Optical Adjustments

Before taking optical adjustments below, remove the Cabinet Top following to the “Mechanical Disassembly”.
Adjustments require a 2.0mm hex wrench and a slot screwdriver. When you adjust Integrator lens or Relay lens adjustment, you need to disconnect FPC cables of LCD panels on the main board.
Optical adjustment requires a 2.0mm hex wrench and a slot screwdriver.
Note: Do not disconnect connectors on the main board, because the projector cannot turn on due to operate the power failure protection.

WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING

CAUTION: To prevent suffer of UV radiation, those adjustment must be completed within 25 minutes.

Contrast adjustment

[Before Adjustment]
- Input a 100% of black raster signal.

1 Loosen a screw **A (Fig.1)** on the polarized glass mounting base which you intend to adjust.
2 Adjust the slot **B** to obtain the darkest brightness on the screen by using a slot screwdriver.
3 Tighten the screw **A** to fix the polarized glass mounting base.

Repeat steps 1 to 3 for remaining polarized glasses.

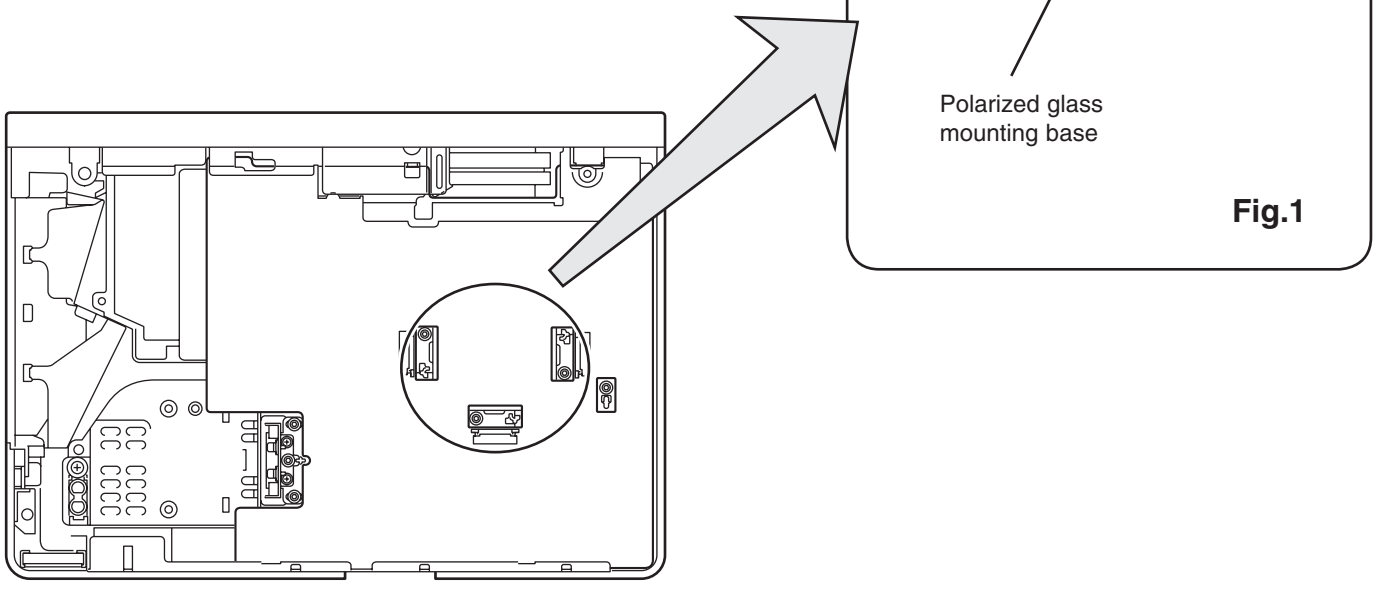
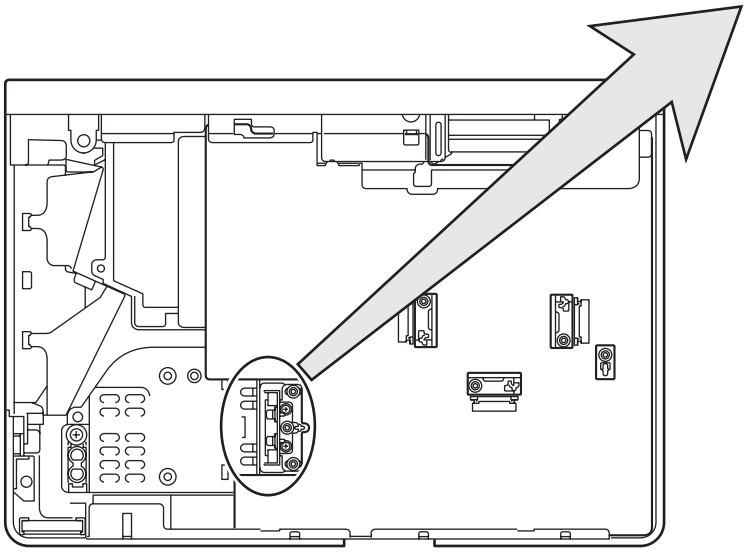


Fig.1

Integrator lens adjustment

1 Turn the projector on by a state of without FPC cables.
2 Project all of lights on the screen.
3 Adjust the adjustment base of integrator lens assy to make color uniformity in white.
1) If the shading appears on the left or right of the screen as shown in **Fig.2-1**, loosen 1 screw **A** , and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
2) If the shading appears on the top or bottom of the screen as shown in **Fig.2-2**, loosen 2 screws **C**, and insert a slot screwdriver into the slot **D** and adjust color uniformity in white by turning a slot screwdriver up or down.
4 Tighten screws **A** and **C** to fix the Integrator lens unit.

Note:
The relay lens adjustment must be carried out after completing this adjustment.



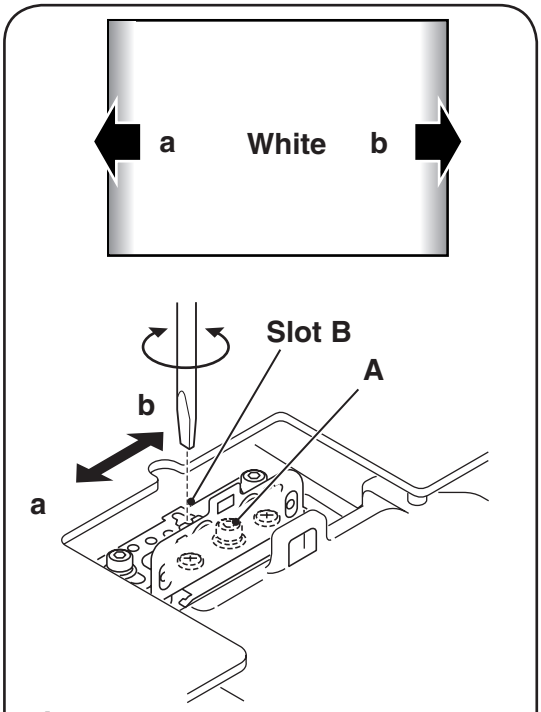


Fig.2-1
Moving of slot B

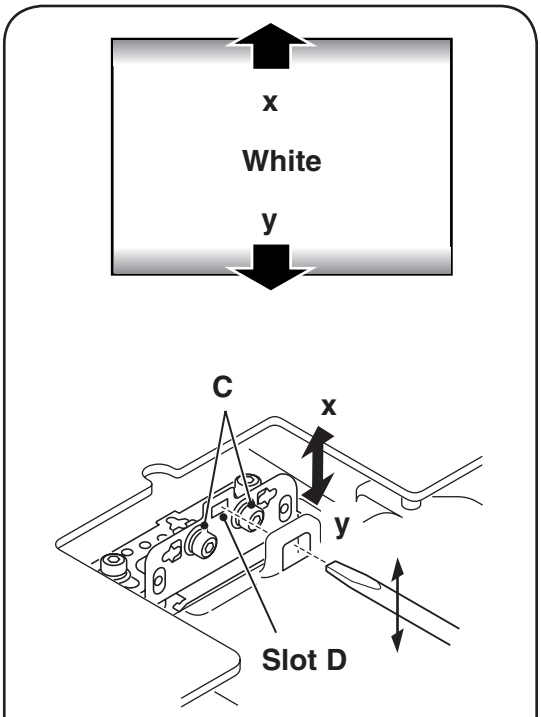
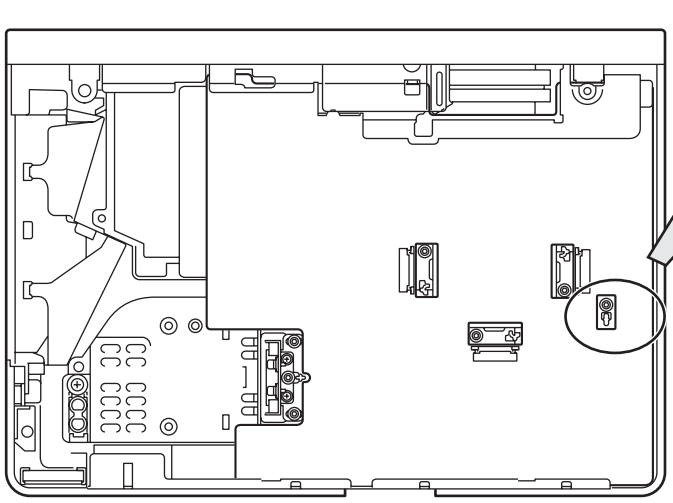


Fig.2-2
Moving of Slot D

Relay lens-Out adjustment

1 Turn the projector on by a state of without FPC cables.
2 Project all of lights on the screen.
3 Adjust the adjustment base of relay lens assy to make color uniformity in white.
If the shading appears on the left or right of the screen as shown in **Fig.3**, loosen 1 screw **A**, and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
4 Tighten the screw **A** to fix the relay lens unit.



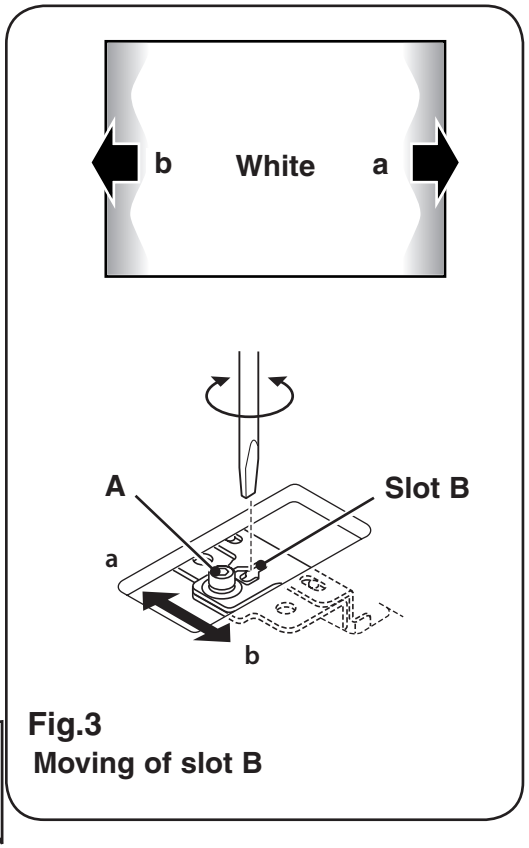


Fig.3
Moving of slot B

Electrical Adjustments

Service Adjustment Menu Operation

To enter the service mode

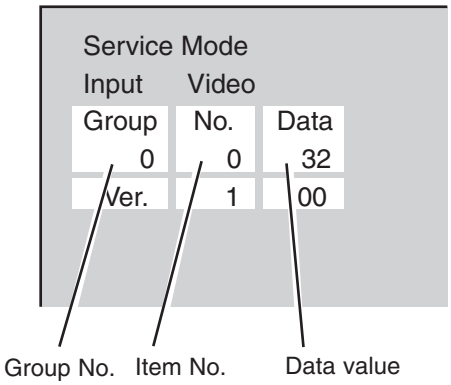
To enter the “Service Mode”, press and hold the **MENU** and **SELECT button** for more than 3 seconds. The service menu appears on the screen as follows.

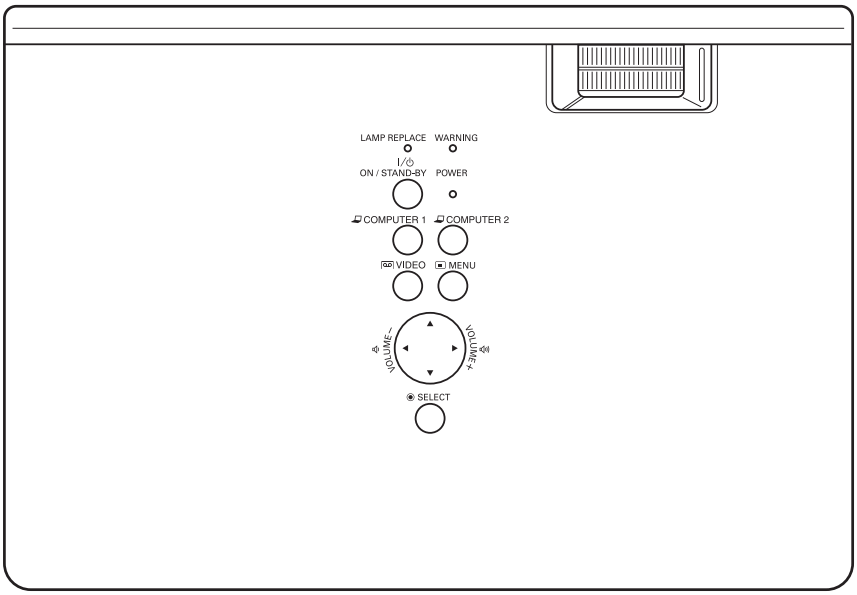
To adjust service data

Select the adjustment group no. by pressing the **MENU button** (increase) or **SELECT button** (decrease), and select the adjustment item no. by pressing the pointer ▲ or ▼ **button**, and change the data value by pressing the ◀ or ▶ **button**. Refer to the “Service Adjustment Data Table” for further description of adjustment group no., item no. and data value.

To exit the service mode

To exit the service mode, press the **ON/STAND-BY button**.





Memory IC (IC1391) Replacement

Memory IC on the main board stores the data for the service adjustments, and should not be replaced except for the case of defective device.
If replaced, the re-adjustments are required following to the “Electrical Adjustments”.
The data of lamp replacement counter is stored in the Memory IC.
Please note that the lamp replace counter will be reset when the memory IC is replaced.
(Lamp replace counter cannot be set to the previous value.)

● **Caution to memory IC replacement**

When memory IC is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC as the mentioned on the service adjustment table. As these data are not the same data as factory shipped data, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.
Please note that in this case the lamp replace counter will be reset.

● **Caution of Main Board replacement (in the case memory IC is not defective)**

When the main board is replaced, memory IC should be replaced with the one on previous main board. After replacement, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.
In this case, the lamp replace counter can be kept the value as before.

Circuit Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety.

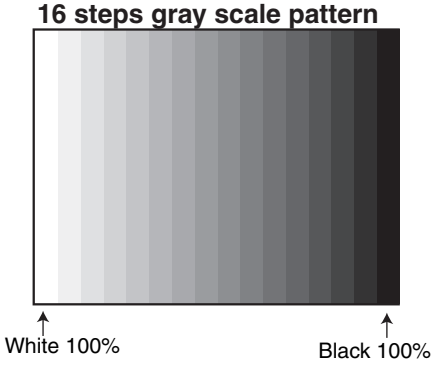
WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING.

CAUTION:
To prevent suffer of UV radiation, those adjustments must be completed within 25 minutes.

[Adjustment Condition]

- Input signal
  - Video signal .....1.0Vp-p/75Ω terminated, 16 steps gray scale (Composite video signal)
  - Component Video signal.....0.7Vp-p/75Ω terminated, 16 steps gray scale (Component video signal)
  - Computer signal.....0.7Vp-p/75Ω terminated, 16 steps gray scale pattern
- Image mode .....“STANDARD” mode unless otherwise noted.

16 steps gray scale pattern



Note:
* Please refer to “Service Adjustment Menu Operation” for entering the service mode and adjusting the service data.

Output Voltage adjustment

After replacing the Power Board readjust the Output voltage adjustment as follows.

1. Connect a digital voltmeter to pins 2 (+) and 1 (-) of **K6A**.
2. Adjust the voltage by using VR601 as following.

AC Input	Reading
230V	370V ±2V

Caution:
Be sure to connect the lamp when taking this adjustment.
* This adjustment is not required even if the power board is replaced because this adjustment is carried out before parts shipment.

1 Fan Control adjustment

1. Enter the service mode.
2. Connect a digital voltmeter to test point “**TPFANA**” (+) and chassis ground (-). Select group no. “**250**”, item no. “**0**” and change data value to adjust voltage to be **5.0 ±0.1V**.
3. Connect a digital voltmeter to test point “**TPFANB**” (+) and chassis ground (-). Select item no. “**2**” and change data value to adjust voltage to be **5.0 ±0.1V**.
4. Connect a digital voltmeter to test point “**TPFANC**” (+) and chassis ground (-). Select item no. “**4**” and change data value to adjust voltage to be **5.0 ±0.1V**.
5. Connect a digital voltmeter to test point “**TPFANA**” (+) and chassis ground (-). Select item no. “**1**” and change data value to adjust voltage to be **13.5 ±0.1V**.
6. Connect a digital voltmeter to test point “**TPFANB**” (+) and chassis ground (-). Select item no. “**3**” and change data value to adjust voltage to be **13.5 ±0.1V**.
7. Connect a digital voltmeter to test point “**TPFANC**” (+) and chassis ground (-). Select item no. “**5**” and change data value to adjust voltage to be **13.5 ±0.1V**.

2 Panel Type Check and Setting

* Before setting, you need to check which type of LCD panel is placed on the projector according to the item "LCD Panel/Prism Ass'y removal" in the chapter "Optical Parts Disassembly".

1. Enter the service mode.
2. Panel Type Check
   Select group no. "**290**", item no. "**0**". Check the data value as follows;
   Data value: 0 For L-Type of LCD Panel
   Data value: 20 For R-Type of LCD panel
3. Panel Type Setting
   Select group no. "**290**", item no. "**1**" and change data value from 10 to 0 or 20 depending on your LCD Panel type. When the data value reaches 0 or 20, it returns to 10 quickly. The gamma-characteristics changes according to your selection.

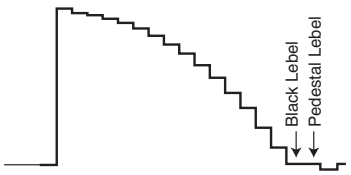
3 Auto Calibration adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. To start the auto-calibration for PC adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "OK" will appear on the screen.

Below adjustments are performed when the above auto calibration is failed.

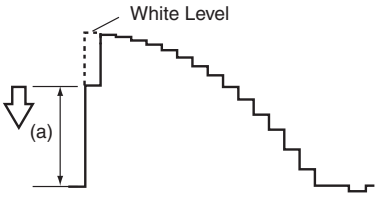
Pedestal adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**0**" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "**TP35R**" (+) and chassis ground (-).
6. Select item no. "**1**" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "**TP35B**" (+) and chassis ground (-).
8. Select item no. "**2**" and change data value to adjust the pedestal level and black level to be the same level.



Gain adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**3**" and adjust the amplitude "**a**" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "**TP35R**" (+) and chassis ground (-).
6. Select group no. "**0**", item no. "**4**" and adjust the amplitude "**a**" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "**TP35B**" (+) and chassis ground (-).
8. Select group no. "**0**", item no. "**5**" and adjust the amplitude "**a**" to be minimum by changing the Data value.



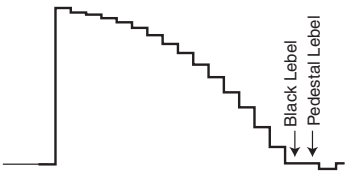
4 Auto Calibration adjustment [Component]

1. Enter the service mode.
2. Receive the 16-step grey scale 480i-component signal with **Computer2 [Component]** mode.
3. To start the auto-calibration for Component adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "OK" will appear on the screen.

Below adjustments are performed when the above auto calibration is failed.

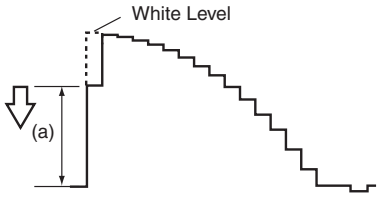
Pedestal adjustment [Component]

1. Enter the service mode.
2. Receive the 16-step grey scale 480i-component signal with **Computer2 [Component]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**0**" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "**TP35R**" (+) and chassis ground (-).
6. Select item no. "**1**" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "**TP35B**" (+) and chassis ground (-).
8. Select item no. "**2**" and change data value to adjust the pedestal level and black level to be the same level.



Gain adjustment [Component]

1. Enter the service mode.
2. Receive the 16-step grey scale 480i-component signal with **Computer2 [Component]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**3**" and adjust the amplitude "**a**" to be minimum by changing the Data value.



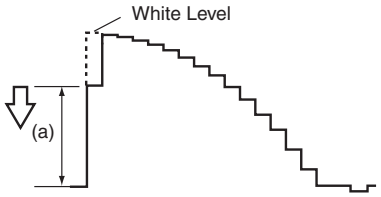
5 Auto Calibration adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video [Video]** mode.
3. To start the auto-calibration for Component adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "OK" will appear on the screen.

below adjustment is performed when the above auto calibration is failed.

Gain adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video [Video]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**20**", item no. "**0**" and adjust the amplitude "**a**" to be minimum by changing the Data value.

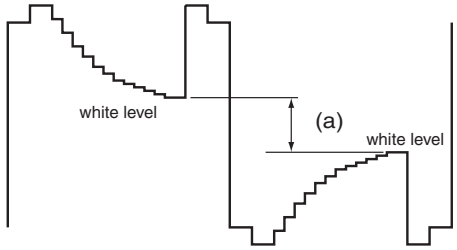


6 Common Center adjustment

1. Enter the service mode.
2. Receive the 50%-Whole Gray computer signal with **Computer1 [RGB]** mode.
3. Select group no. "**100**", item no. "**92**" and change data value to "**2**" to reduce the panel frequency.
4. Project only green light component to the screen.
5. Select group no. "**101**", item no. "**1**" and change data value to obtain the minimum flicker on the screen.
6. Project only red light component to the screen.
7. Select item no. "**0**" and change data value to obtain the minimum flicker on the screen.
8. Project only blue light component to the screen.
9. Select item no. "**2** and change data value to obtain the minimum flicker on the screen.
10. Select group no. "**100**", item no. "**92**" and change data value to "**0**" to reset the panel frequency.

7 50% White adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**100**", item no. "**6**" and change data value to adjust amplitude "**a**" to be **1.6 ±0.1V**.



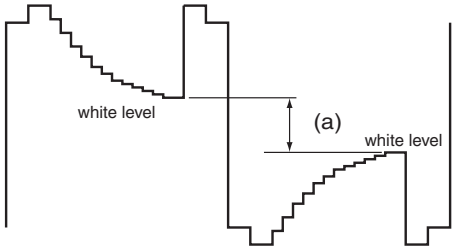
8 White Balance adjustment [PC]

1. Enter the service mode,
2. Receive the 16-step gray scale computer signal with **Computer1 [RGB]** mode.
3. Select group no. "**100**" item no. "**7**" (Red) or "**8**" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

9 50% White adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video[Video]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**100**", item no. "**6**" and change data value to adjust amplitude "**a**" to be **1.6 ±0.1V**.



10 White Balance adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video[Video]** mode.
3. Select group no. "**100**" item no. "**7**" (Red) or "**8**" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

Note On White Uniformity Adjustment

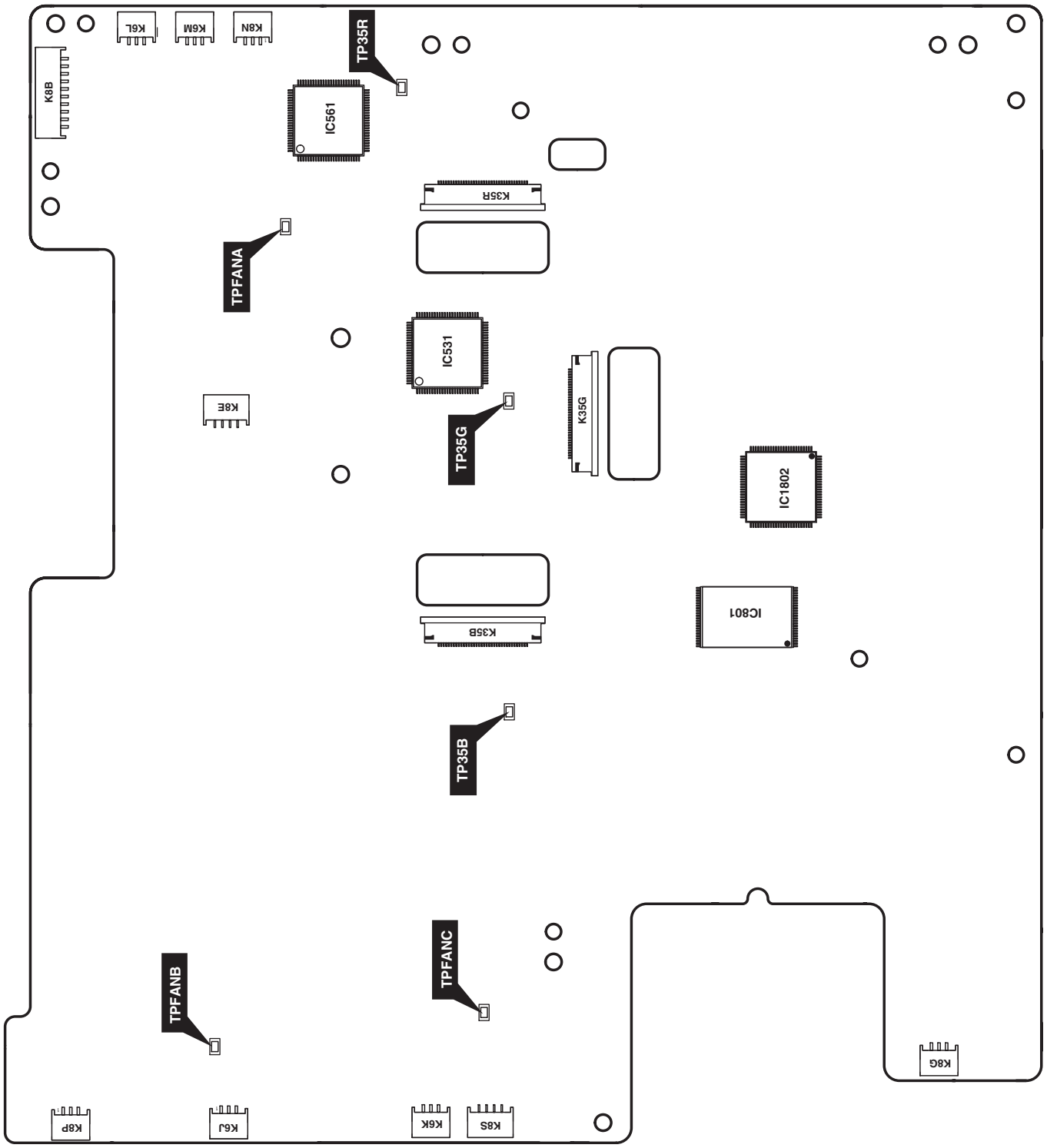
If you find the color shading on the screen, please adjust the white uniformity by using the proper computer and "Color Shading Correction" software supplied separately.

The software can be ordered as follows;

COLOR SHADING CORRECTION Ver. 4.00
Service Parts No. 645 075 9611

Test Points and Locations

MAIN BOARD



Service Adjustment Data Table

These initial values are the reference data written from the CPU ROM to memory IC when replaced new memory IC. The adjustment items indicated with "*" are required to readjust following to the "Electrical adjustments". Other items should be used with the initial data value.

Group/ Item	Item Name	Function	Initial	Range	Note
Group 0	**AD Converter (PW190)**				
0	ADC G-OFFSET	PC / Component / SCART	128/120/128	0 - 255	* G-Pedestal Adjustment
1	ADC R-OFFSET	PC / Component / SCART	128/140/128	0 - 255	* R-Pedestal Adjustment
2	ADC B-OFFSET	PC / Component / SCART	128/140/128	0 - 255	* B-Pedestal Adjustment
3	ADC G-GAIN	PC / Component / SCART	50/50/50	0 - 255	* G-Gain Adjustment
4	ADC R-GAIN	PC / Component / SCART	40/40/40	0 - 255	* R-Gain Adjustment
5	ADC B-GAIN	PC / Component / SCART	40/40/40	0 - 255	* B-Gain Adjustment
6	GRAAFLTR/RBAAFLTR	Green (Red and Blue) Anti-Alias Filter	4 / R / R	0 - 7	
7	GRNAADWNSMPL / RBAADWNSMPL	Green (Red and Blue) Anti-Alias Downsample	0 / R / R	0 - 3	Composite & S-Video / Component / PC
8	GRNAAHF / RBAAHF	Green (Red and Blue) Anti-Alias High Frequency	3 / R / R	0 - 3	*R: Read only value
10	SOGTH	PC / Component / SCART SyncOn Green Threhould	4 / 3 / 2	0 - 15	
11	SOGHYSDIS	PC / Component / SCART Sync On Green Hsysterisis Enable	0	0 - 1	
12	HS1TH		4	0 - 7	
13	HS0TH		4	0 - 7	
100	PreCoast PC Signal		3	0 - 63	
101	PostCoast PC Signal		8	1 - 63	
120	PreCoast PC Video 480i		7	0 - 63	
121	PostCoast PC Video 480i		13	0 - 63	
122	PreCoast PC Video 575i		7	0 - 63	
123	PostCoast PC Video 575i		13	0 - 63	
124	PreCoast PC Video 480p		7	0 - 63	
125	PostCoast PC Video 480p		13	0 - 63	
126	PreCoast PC Video 575p		7	0 - 63	
127	PostCoast PC Video 575p		13	0 - 63	
128	PreCoast PC Video 720p 60Hz		7	0 - 63	
129	PostCoast PC Video 720p 60Hz		13	0 - 63	
130	PreCoast PC Video 720p 50Hz		7	0 - 63	
131	PostCoast PC Video 720p 50Hz		13	0 - 63	
132	PreCoast PC Video 1080i 60Hz		7	0 - 63	
133	PostCoast PC Video 1080i 60Hz		13	0 - 63	
134	PreCoast PC Video 1080i 50Hz		7	0 - 63	
135	PostCoast PC Video 1080i 50Hz		13	0 - 63	
136	PreCoast PC Video 1035i		7	0 - 63	
137	PostCoast PC Video 1035i		13	0 - 63	
138	PreCoast PC Video 1080p 60Hz		7	0 - 63	
139	PostCoast PC Video 1080p 60Hz		13	0 - 63	
140	PreCoast PC Video 1080p 50Hz		7	0 - 63	
141	PostCoast PC Video 1080p 50Hz		13	0 - 63	
142	PreCoast PC Video 1080p 30Hz		7	0 - 63	
143	PostCoast PC Video 1080p 30Hz		13	0 - 63	
144	PreCoast PC Video 1080p 25Hz		7	0 - 63	
145	PostCoast PC Video 1080p 25Hz		13	0 - 63	
146	PreCoast PC Video 1080p 24Hz		7	0 - 63	
147	PostCoast PC Video 1080p 24Hz		13	0 - 63	
150	PreCoast YCbCr 480i		7	0 - 63	
151	PostCoast YCbCr 480i		13	0 - 63	
152	PreCoast YCbCr 575i		7	0 - 63	
153	PostCoast YCbCr 575i		13	0 - 63	
154	PreCoast YCbCr 480p		7	0 - 63	
155	PostCoast YCbCr 480p		13	0 - 63	
156	PreCoast YCbCr 575p		7	0 - 63	
157	PostCoast YCbCr 575p		13	0 - 63	
158	PreCoast YCbCr 720p 60Hz		7	0 - 63	
159	PostCoast YCbCr 720p 60Hz		13	0 - 63	
160	PreCoast YCbCr 720p 50Hz		7	0 - 63	
161	PostCoast YCbCr 720p 50Hz		13	0 - 63	

Group/ Item	Item Name	Function	Initial	Range	Note
162	PreCoast YCbCr 1080i 60Hz		7	0 - 63	
163	PostCoast YCbCr 1080i 60Hz		13	0 - 63	
164	PreCoast YCbCr 1080i 50Hz		7	0 - 63	
165	PostCoast YCbCr 1080i 50Hz		13	0 - 63	
166	PreCoast YCbCr 1035i		7	0 - 63	
167	PostCoast YCbCr 1035i		13	0 - 63	
180	PreCoast SCART 480i		7	0 - 63	
181	PostCoast SCART 480i		13	0 - 63	
182	PreCoast SCART 575i		7	0 - 63	
183	PostCoast SCART 575i		13	0 - 63	
Group 10	**Sync Processor**				
0	SYNCAMPHLCKTOLOW	Minimum sync amplitude threshold for HLCK 1 to 0 tansition	0x1000	0 - 9999	
1	SYNCAMPHLCKTOHI	Minimum sync amplitude threshold for HLCK 0 to 1 tansition	0x700	0 - 9999	
Group 20	**Video Decoder** *R : Read Only Value				
0	Y Level	Composite / S-Video - Y Level (ADC RGB Gain)	10 / 10	0 - 255	Composite / S-Video * Gain Adjustment [Video]
1	C Level	Composite / S-Video - C Level (ADC Saturation)	115 / 115	0 - 255	Composite / S-Video
2					
3	XCXL Level	Cross-Chroma, Cross-Luma Level	3	0 - 5	
4	C2DNBANDWIDTH	Comb 2D Narrow Bandwidth	3 / 3	0 - 3	NTSC/PAL
5	C2DWBANDWIDTH	Comb 2D Wide Bandwidth	4 / 4	0 - 7	NTSC/PAL
6	C2DCNMINLEAK	Comb 2D Chroma Narrow Band Minimum Leakage	0 / 3	0 - 3	Left Values are adjustable if CXCL Level = 5.
7	C2DCNSLOPELEAK	Comb 2D Narrow Band Slope Leakage	7 / 7	0 - 7	NTSC/PAL
8	C2DCWMINLEAK	Comb 2D Wide Band Minimum Leakage	1 / 3	0 - 3	NTSC/PAL
9	C2DCWSLOPELEAK	Comb 2D CW Slope Leakage	6 / 6	0 - 7	NTSC/PAL
10	COMBLEAK2BPGAIN	Comb Leak To Ban Pass Gain	1 / 0	0 - 3	NTSC/PAL
11	C2DBDIAGONALGAIN	Comb 2D Band Pass Diagonal Gain	1 / 3	0 - 3	NTSC/PAL
12	C2DNBCWBCLGAIN	Comb 2D Narrow Band Comb Wide Band Comb	1 / 1	0 - 3	NTSC/PAL
13	RLUMASETUP-Enable	7.5IRE Setup Enable	0	0 - 1	Effective only NTSC Signal
Group 40	**General**				
0	IP Mode	Sets for IP Off	1	0 - 1	0: IP Block not used 1: IP OFF used with IP Block
1	3:2 PullDown Mode		1	1 - 3	bit0 : Global Motion bit1 : Video Motion
2	Detect Film Mode Enable		0	0 - 2	0 : 2:3pull down & 2:2pull down 1 : 2:3pull down 2 : 2:2pull down
3	Force IP Mode		2	0 - 2	0 : IP Process Disable 1 : Force Normal IP Mode 2 : Force Film Mode Effective only for PSF Signal.
Group 41	**Deinterlacer setting** Effective only for Progressive ON-L1 mode.				
0	Motion Adaptive Weight Value	<KDEINT>	60	0 - 255	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 42	**Deinterlacer setting** Effective only for Progressive ON-L2 mode.				
0	Motion Adaptive Weight Value	<KDEINT>	0	0 - 255	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	2	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 43	**Deinterlacer setting** Effective only for Progressive ON/Film mode.				
0	Motion Adaptive Weight Value	<KDEINT>	30	0 - 255	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 45	**Noise Reduction (Time)** Effective only for N.R - Off				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	0	0 - 255	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
Group 47	**Noise Reduction (Time)** Effective only for N.R L1				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	50	0 - 255	
Group 49	**Noise Reduction (Time)** Effective only for N.R L2				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	100	0 - 255	
Group 50	**2:2pull down setting**				
0	22Film Mode Sensitivity	Film Detection Sensitivity <FILMSTVT22>	4	1 - 5	
1	22Film Mode Threshold Low	<FILMTHRD22A>	80	0 - 32767	
2	22Film Mode Threshold High	<FILMTHRD22B>	120	0 - 32767	
3	VOFTHR13	<VOFTHR13>	124	0 - 1023	Read only
4	VOFTHR12	<VOFTHR12>	124	0 - 1023	Read only
5	VOFTHR23	<VOFTHR23>	124	0 - 1023	Read only
6	Video Motion Window Start X	<VOFSTARX>	10	0 - 2047	Range of detective for Film mode
7	Video Motion Window Stop X	<VOFSTOPX>	10	0 - 2047	Range of detective for Film mode
8	Video Motion Window Start Y	<VOFSTARY>	10	0 - 1023	Range of detective for Film mode
9	Video Motion Window Stop Y	<VOFSTOPY>	10	0 - 1023	Range of detective for Film mode
Group 51	**2:3pull down setting**				
0	Global Motion Sensitivity	Film Detection Sensitivity <FILMSTVT23>	4	1 - 5	
1	Video Motion Sensitivity	Film Detection Sensitivity <VOFSTVT>	4	1 - 5	
2	Video Motion Threshold Low	<VOFTHRDA>	120	0 - 32767	
3	Video Motion Threshold High	<VOFTHRDB>	180	0 - 32767	
4	Global Motion Threshold	<GMDTHRD>	124	0 - 1024	
5	23Film Mode Threshold	<FILMTHRD23>	100	0 - 32767	
6	Global Motion Window Start X	<GMDSTARX>	10	0 - 2047	Range of detective for Film mode
7	Global Motion Window Stop X	<GMDSTOPX>	10	0 - 2047	Range of detective for Film mode
8	Global Motion Window Start Y	<GMDSTARY>	10	0 - 1023	Range of detective for Film mode
9	Global Motion Window Stop Y	<GMDSTOPY>	10	0 - 1023	Range of detective for Film mode
Group 60	**Image**				
0	Center Contrast		534/596/534/534/492/492	0 - 1023	
1	Center Brightness		512/468/512/500/512/512	0 - 1023	Video(S-Video) / Component / SCART / ANALOG / DIGITAL / HDCP Setting Value= (MENU Value - MENU Center Value) x Alpha / 10 + Center [Setting Value to PW] Contrast [Max] 1023 [Min] 0 Brightness [Max] 1023 [Min] 0 Color [Max] 1023 [Min] 0 Tint [Max] 180 [Min] 0 Sharpness [Max] 57 [Min] 0
2	Center Color		512/512/512/512/512/512	0 - 1023	
3	Center Tint		90/90/90/90/90/90	0-180	
4	Center Sharpness		16/16/16/16/16/16	7-49	
5	Alpha Contrast		40/40/40/40/40/40	0-1000	
6	Alpha Brightness		140/140/140/140/140/140	0-1000	
7	Alpha Color		70/70/70/70/70/70	0-1000	
8	Alpha Tint		10/10/10/10/10/10	0-1000	
9	Alpha Sharpness		10/10/10/10/10/10	0-1000	
Group 100	**Panel Service**				
0	G-SubGain		512/524/472/472/512/524/472/472	0-1023	PCStandard/PCDynamic/PCReal/PCBlack-Board/AVStandard/AVDynamic/AVCinema/ AVBlackBoard
1	R-SubGain		512/524/472/535/512/524/472/535	0-1023	
2	B-SubGain		512/524/472/472/512/524/472/472	0-1023	
3	G-SubBright		0/0/24/16/0/0/24/16	0-1023	PCStandard/PCDynamic/PCReal/PCBlack-Board/AVStandard/AVDynamic/AVCinema/ AVBlackBoard
4	R-SubBright		0/0/24/16/0/0/24/16	0-1023	
5	B-SubBright		0/0/24/16/0/0/24/16	0-1023	
6	G-GammaShift		512/512	0-1023	PC/AV Center=512 R] and [B] are linked with [G]
7	R-GammaShift		512/512	0-1023	
8	B-GammaShift		512/512	0-1023	
9	G-ReferH		1023/1023	0-1023	[R] and [B] are linked with [G] Scan Direction (Front/Rear)
10	G-ReferL		336/336	0-1023	[R] and [B] are linked with [G] Scan Direction (Front/Rear)
11	R-ReferH		1023/1023	0-1023	Scan Direction (Front/Rear)
12	R-ReferL		336/336	0-1023	Scan Direction (Front/Rear)

Group/ Item	Item Name	Function	Initial	Range	Note
13	B-ReferH		1023/1023	0-1023	Scan Direction (Front/Rear)
14	B-ReferL		336/336	0-1023	Scan Direction (Front/Rear)
15	DXOutR		229	0-1023	
16	DXOutG		229	0-1023	
17	DXOutB		229	0-1023	
18	H_Change_Pos		15	0-256	
19	SH_Base		273	0-4095	
20	NRG_Pos		49	0-128	
21	NRG_Width		42	0-255	
22	OSD_Pos		2	0-3	
23	OSD_Ptn		0	0-7	
24	GammaCtrl		1	0-1	
25	REF_GatePos		5	0-1023	
26	REF_GateDur		145	0-1023	
27	R-BasePos		10	0-15	
28	G-BasePos		10	0-15	
29	B-BasePos		10	0-15	
30	RGB-Adjust		0	0-7	
31	RGB-AdjLv		0	0-1023	Operation STEP=256[0<->256<->512<->768<->1023]
32	LineR0		6	0-255	(MIN<-->MAX Cyclic Operation)
33	LineR1		4	0-255	(MIN<-->MAX Cyclic Operation)
34	LineR2		2	0-255	(MIN<-->MAX Cyclic Operation)
35	LineR3		0	0-255	(MIN<-->MAX Cyclic Operation)
36	LineR4		255	0-255	(MIN<-->MAX Cyclic Operation)
37	LineG0		6	0-255	(MIN<-->MAX Cyclic Operation)
38	LineG1		4	0-255	(MIN<-->MAX Cyclic Operation)
39	LineG2		2	0-255	(MIN<-->MAX Cyclic Operation)
40	LineG3		0	0-255	(MIN<-->MAX Cyclic Operation)
41	LineG4		255	0-255	(MIN<-->MAX Cyclic Operation)
42	LineB0		6	0-255	(MIN<-->MAX Cyclic Operation)
43	LineB1		4	0-255	(MIN<-->MAX Cyclic Operation)
44	LineB2		2	0-255	(MIN<-->MAX Cyclic Operation)
45	LineB3		0	0-255	(MIN<-->MAX Cyclic Operation)
46	LineB4		255	0-255	(MIN<-->MAX Cyclic Operation)
47	GhostR-Pos		10	0-15	
48	GhostG-Pos		10	0-15	
49	GhostB-Pos		10	0-15	
50	GhostR-Cent		0	0-2047	
51	GhostR-Start		128	0-255	
52	GhostR-End		128	0-255	
53	GhostG-Cent		0	0-2047	
54	GhostG-Start		128	0-255	
55	GhostG-End		128	0-255	
56	GhostB-Cent		0	0-2047	
57	GhostB-Start		128	0-255	
58	GhostB-End		128	0-255	
59	BlockR1		0	0-2047	(MIN<-->MAX Cyclic Operation)
60	BlockG1		0	0-2047	(MIN<-->MAX Cyclic Operation)
61	BlockB1		0	0-2047	(MIN<-->MAX Cyclic Operation)
62	BlockR2		0	0-2047	(MIN<-->MAX Cyclic Operation)
63	BlockG2		0	0-2047	(MIN<-->MAX Cyclic Operation)
64	BlockB2		0	0-2047	(MIN<-->MAX Cyclic Operation)
65	ReverceR		0	0-2047	(MIN<-->MAX Cyclic Operation)
66	ReverceG		0	0-2047	(MIN<-->MAX Cyclic Operation)
67	ReverceB		0	0-2047	(MIN<-->MAX Cyclic Operation)
68	BackCrossR-Cent		0	0-2047	
69	BackCrossR-Start		128	0-255	
70	BackCrossR-End		128	0-255	
71	BackCrossG-Cent		0	0-2047	
72	BackCrossG-Start		128	0-255	
73	BackCrossG-End		128	0-255	
74	BackCrossBR-Cent		0	0-2047	
75	BackCrossB-Start		128	0-255	
76	BackCrossB-End		128	0-255	
77	ColshdSelect		1	0-1	
78	R-Min		223	0-1023	
79	R-Mid2		417	0-1023	
80	R-Mid1		559	0-1023	
81	R-Max		671	0-1023	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
82	G-Min		223	0-1023	
83	G-Mid2		417	0-1023	
84	G-Mid1		559	0-1023	
85	G-Max		671	0-1023	
86	B-Min		223	0-1023	
87	B-Mid2		417	0-1023	
88	B-Mid1		559	0-1023	
89	B-Max		671	0-1023	
90	H-OutPos		116	0-2047	
91	OutAreaLv		0	0-1023	
92	FlickerAdj		0	0/2	not used
93	FRC_Bit		2	0-2	
94	FrontCTalkR-Cent		0	0-2047	
95	FrontCTalkR-Start		126	0-255	
96	FrontCTalkR-End		129	0-255	
97	FrontCTalkG-Cent		0	0-2047	
98	FrontCTalkG-Start		126	0-255	
99	FrontCTalkG-End		129	0-255	
100	FrontCTalkB-Cent		0	0-2047	
101	FrontCTalkB-Start		126	0-255	
102	FrontCTalkB-End		129	0-255	
103	R-DCOffset-NGain		0/0	0-255	Scan Direction (Front/Rear)
104	R-DCOffset-N1		511 / 511	0-511	
105	R-DCOffset-N2		0/0	0-511	
106	R-DCOffset-N3		0/0	0-511	
107	R-DCOffset-N4		0/0	0-511	
108	R-DCOffset-N5		0/0	0-511	
109	R-DCOffset-N6		0/0	0-511	
110	R-DCOffset-N7		0/0	0-511	
111	R-DCOffset-N8		0/0	0-511	
112	R-DCOffset-N9		0/0	0-511	
113	R-DCOffset-N10		0/0	0-511	
114	R-DCOffset-N11		0/0	0-511	
115	R-DCOffset-N12		491 / 491	0-511	
116	G-DCOffset-NGain		0/0	0-255	
117	G-DCOffset-N1		511 / 511	0-511	
118	G-DCOffset-N2		0/0	0-511	
119	G-DCOffset-N3		0/0	0-511	
120	G-DCOffset-N4		0/0	0-511	
121	G-DCOffset-N5		0/0	0-511	
122	G-DCOffset-N6		0/0	0-511	
123	G-DCOffset-N7		0/0	0-511	
124	G-DCOffset-N8		0/0	0-511	
125	G-DCOffset-N9		0/0	0-511	
126	G-DCOffset-N10		0/0	0-511	
127	G-DCOffset-N11		0/0	0-511	
128	G-DCOffset-N12		491 / 491	0-511	
129	B-DCOffset-NGain		0/0	0-255	
130	B-DCOffset-N1		511 / 511	0-511	
131	B-DCOffset-N2		0/0	0-511	
132	B-DCOffset-N3		0/0	0-511	
133	B-DCOffset-N4		0/0	0-511	
134	B-DCOffset-N5		0/0	0-511	
135	B-DCOffset-N6		0/0	0-511	
136	B-DCOffset-N7		0/0	0-511	
137	B-DCOffset-N8		0/0	0-511	
138	B-DCOffset-N9		0/0	0-511	
139	B-DCOffset-N10		0/0	0-511	
140	B-DCOffset-N11		0/0	0-511	
141	B-DCOffset-N12		491 / 491	0-511	
142	R-DCOffset-PGain		0/0	0-255	
143	R-DCOffset-P1		4 / 4	0-511	
144	R-DCOffset-P2		0/0	0-511	
145	R-DCOffset-P3		0/0	0-511	
146	R-DCOffset-P4		0/0	0-511	
147	R-DCOffset-P5		0/0	0-511	
148	R-DCOffset-P6		0/0	0-511	
149	R-DCOffset-P7		0/0	0-511	
150	R-DCOffset-P8		0/0	0-511	

Group/ Item	Item Name	Function	Initial	Range	Note
151	R-DCOffset-P9		0/0	0-511	
152	R-DCOffset-P10		0/0	0-511	
153	R-DCOffset-P11		0/0	0-511	
154	R-DCOffset-P12		22 / 22	0-511	
155	G-DCOffset-PGain		0/0	0-255	
156	G-DCOffset-P1		4 / 4	0-511	
157	G-DCOffset-P2		0/0	0-511	
158	G-DCOffset-P3		0/0	0-511	
159	G-DCOffset-P4		0/0	0-511	
160	G-DCOffset-P5		0/0	0-511	
161	G-DCOffset-P6		0/0	0-511	
162	G-DCOffset-P7		0/0	0-511	
163	G-DCOffset-P8		0/0	0-511	
164	G-DCOffset-P9		0/0	0-511	
165	G-DCOffset-P10		0/0	0-511	
166	G-DCOffset-P11		0/0	0-511	
167	G-DCOffset-P12		22 / 22	0-511	
168	B-DCOffset-PGain		0/0	0-255	
169	B-DCOffset-P1		4 / 4	0-511	
170	B-DCOffset-P2		0/0	0-511	
171	B-DCOffset-P3		0/0	0-511	
172	B-DCOffset-P4		0/0	0-511	
173	B-DCOffset-P5		0/0	0-511	
174	B-DCOffset-P6		0/0	0-511	
175	B-DCOffset-P7		0/0	0-511	
176	B-DCOffset-P8		0/0	0-511	
177	B-DCOffset-P9		0/0	0-511	
178	B-DCOffset-P10		0/0	0-511	
179	B-DCOffset-P11		0/0	0-511	
180	B-DCOffset-P12		22 / 22	0-511	Scan Direction (Front/Rear)
181	ENBX-R		0	0-127	
182	ENBX-G		0	0-127	
183	ENBX-B		0	0-127	
184	DXOutPos		0	0-1	
Group101 : Panel Service(6150/1060)					
0	R-LCCOM		335	0-511	
1	G-LCCOM		335	0-511	
2	B-LCCOM		335	0-511	
3	R-LCCOM-Gain		191	0-255	
4	G-LCCOM-Gain		191	0-255	
5	B-LCCOM-Gain		191	0-255	
6	R-LCCOM-Bright		0	0-255	
7	G-LCCOM-Bright		0	0-255	
8	B-LCCOM-Bright		0	0-255	
9	R-LCCOM-Cent		18	0-63	
10	G-LCCOM-Cent		18	0-63	
11	B-LCCOM-Cent		18	0-63	
12	R-ENBX-PW		11	0-127	
13	G-ENBX-PW		11	0-127	
14	B-ENBX-PW		11	0-127	
15	R-DXIN		8	0-255	Link with No.18
16	G-DXIN		8	0-255	Link with No.19
17	B-DXIN		8	0-255	Link with No.20
18	R-CLXIN		8	0-255	Link with No.15
19	G-CLXIN		8	0-255	Link with No.16
20	B-CLXIN		8	0-255	Link with No.17
21	R-ENBX1IN		27	0-255	
22	G-ENBX1IN		27	0-255	
23	B-ENBX1IN		27	0-255	
Group102 : Auto Keystone Setup Value					
0	OFFSET		0	-1056 - 1056	
1	OFFSET SWITCH		0	0 - 1	
2	DEBUG MODE		0	0 - 1	
3	SERVICE CALIBRATION		0	0 - 1	
4	LOCK COUNT		5	1 - 255	
5	DELT VERT RESULT		64	1 - 255	
6	ANGLE 1 COUNT		1	1 - 10	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
7	ANGLE 2 COUNT		5	1 - 10	
8	BLIND SECTOR 1		160	0 - 1024	
9	BLIND SECTOR 3		32	0 - 1024	
10	BLIND SECTOR BIAS		61	0 - 1024	
Group 200	**Option**				
0	Logo Prohibition (Forced No Brand)	Logo Prohibition (0: Menu, 1: Forced, 2: China, 3-9: not used)	0	0 - 2	Effective after AC On
1	RS232C Baudrate	Baud Rate	0	0 - 2	0: 19200bps, 1: 9600bps, 2: 115200bps
2	PJLink Enable	PJLink	0	0 - 1	0:Disable 1:Enable
3	Shipping Setting		0	0 - 20	Default set when the value is set to 10
4	CABLE SW	Long Cable	0	0 - 10	0: Disable, 1: Enable
5	PW Debug Command Enable		0	0 - 1	0:Disable (Serial Command Eanble) 1: Enable (PW Debug Mode)
6	Device Refresh Disable		0	0 - 1	0:Enable, 1:Disable No last memory
7	Device Access Disable		0	0 - 1	0:Enable (Normal), 1:Disable No last memory
20	Projector Time Reset		0	0 - 20	Projector Time is cleared when the value is set to 10
21	Lamp Warning Time (NORMAL)	Lamp Life at Normal Mode (Warning Time at Normal)		500 - 8000	
22	Lamp Warning Time (ECO)	Lamp Life at Eco Mode (Warning Time at Eco)		500 - 8000	
23	Lamp Warning Time (HIGH)	Lamp Life at High Mode (Warning Time at High)		500 - 8000	
30	Lamp life test enable				0:Disable 1:Enable, for safety test only
31	Lmap On time(for life test)	For test purpose			
32	Lamp Off time(for life test)	For test purpose			
33	Lamp total time(for life test)	For test purpose			
40	PreScaler		n/a	0-255	n/a
41	Htime		n/a	0-65535	n/a
52	Lamp Counter reset Times	Reset Times of Lamp Counter	n/a	0 - 255	Read only
54	Factory Default Execute Times	Reset times of Fanctory Default	n/a	0 - 255	Read only
55	Motor Disable	0: On, 1: Off	n/a	0 - 1	
56	Menu Position	Move menu (X asis)	0	0 - 1024	
57	Menu Position	Move menu (Y asis)	0	0 - 1024	
58	Lamp Go Out		n/a	0 - 1	
Group 201	**Option (signal)**				
0	FrameLock Option		1	0 - 1	0: FrameLockOFF at PC signal 1: FrameLockON at PC signal and 47Hz (Vfreq) ~ Panel frequency of input signal
2	Field Sense Invert Enable		0	0 - 1	Reverse Processing of FLDINVSetting Value 0: Disable - Used FLDINV Setting Value 1: Enable - Used Reversed FLDINV Setting Value
3					
4	Sub Image Enable		1	0 - 1	0:Disable (Service Adjustment Dsiable, Used all the Center Values 1:Enable (Service Adjustment Enable)
6	Zoom Accelerator Enable		0	0 - 1	0:Zoom Accelerator OFF, 1:Zoom Accelerator ON No last memory
7	DZoom Reset by Keystone		0	0 - 1	0:Enable (Normal), 1:Disable (Dzoo is not cancelled even if Keystone is cancelled) No last memory
8	Stability Count	Count Value of V-missing	5	0 - 255	
9	Sensivity for Signal Lost (HSYNC)	Only used this value for No Signal Judgement(Hz)	350	0 - 65535	
10	Sensivity for Signal Lost (VSYNC)	Only used this value for No Signal Judgement(Line)	3	0 - 255	
11	Keystone Filter Center Value	Reference Value	16	0 - 30	
Group 202	**Option (MCI model only- Not available this model)**				
0	Memory Viewer OSD	Memory Viewer OSD Display (1: Yes, 0: No)	1	0 - 1	
Group 210	**LampContorl**				
0	DIMMER_CTRL_LEVEL1	Luminance Level 1 Data for Dimmer: Dim Level 1 at the less than the Value		0 - 255	
1	DIMMER_CTRL_LEVEL2	Luminance Level 2 Data for Dimmer: Dim Level 2 at the less than the Value		0 - 255	
2	DIMMER_CTRL_LEVEL3	Luminance Level 3 Data for Dimmer: Dim Level 3 at the less than the Value		0 - 255	
3	DIMMER_CTRL_LEVEL4	Luminance Level 4 Data for Dimmer: Dim Level 4 at the less than the Value		0 - 255	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
4	DIMMER_CTRL_LEVEL5	Luminance Level 5 Data for Dimmer: Dim Level 5 at the less than the Value		0 - 255	
5	DIMMER_CTRL_LEVEL6	Luminance Level 6 Data for Dimmer: Dim Level 6 at the less than the Value		0 - 255	
6	DIMMER_CTRL_LEVEL7	Luminance Level 7 Data for Dimmer: Dim Level 7 at the less than the Value		0 - 255	
7	DIMMER_CTRL_LEVEL8	Luminance Level 8 Data for Dimmer: Dim Level 8 at the less than the Value		0 - 255	
8	DIMMER_CTRL_LEVEL9	Luminance Level 9 Data for Dimmer: Dim Level 9 at the less than the Value		0 - 255	
9	DIMMER_CTRL_LEVEL10	Luminance Level 10 Data for Dimmer: Dim Level 10 at the less than the Value		0 - 255	
10	DIMMER_CTRL_LEVEL11	Luminance Level 11 Data for Dimmer: Dim Level 11 at the less than the Value		0 - 255	
11	DIMMER_CTRL_LEVEL12	Luminance Level 12 Data for Dimmer: Dim Level 12 at the less than the Value		0 - 255	
12	DIMMER_CTRL_LEVEL13	Luminance Level 13 Data for Dimmer: Dim Level 13 at the less than the Value		0 - 255	
13	DIMMER_CTRL_LEVEL14	Luminance Level 14 Data for Dimmer: Dim Level 14 at the less than the Value		0 - 255	
14	DIMMER_CTRL_LEVEL15	Luminance Level 15 Data for Dimmer: Dim Level 15 at the less than the Value		0 - 255	
15	DIMMER_AVERAGE_POINT	Luminance Data Avarage Point for Mimmer		0 - 16	
16	DIMMER_AVERAGE_DATA	Luminance Data Avarage Value for Dimmer		-	* Read only
17	DIMMER_LEVEL_AUTO	Current Dimmer Leverl		-	* Read only
18	DIMMER_LEVEL_NORMAL	Normal Dimmer Level		0 - 15	
19	DIMMER_LEVEL_ECO	Eco Dimmer Level		0 - 15	
20	Lamp check enable				0: Lamp Failure Detection OFF (White 50% Back), 1 : ON (Blue 100% Back)
21	VOLTAGE_LEVEL	Lamp Voltage			Unit: 8bit(Raw Data) * Read only
22	DIMMER_LEVEL_HIGH	Dimmer level High		0 - 15	
Group 250	**FAN Cntorol**				
0	FAN1 MIN ADJUST (DAC)	DAC Output for Fan * Lamp mode is forced Eco	10	0 - 255	
1	FAN1 MAX ADJUST (DAC)		225	0 - 255	
2	FAN2 MIN ADJUST (DAC)		10	0 - 255	
3	FAN2 MAX ADJUST (DAC)		225	0 - 255	
4	FAN3 MIN ADJUST (DAC)		10	0 - 255	
5	FAN3 MAX ADJUST (DAC)		225	0 - 255	
Group 251					
	Not used				
Group 252	**Fan Option**				
0	HI-LAND SWITCH	0: Normal, 1: Hi-Land, 2-4: Hi-Land 1-3	0	0 - 5	
1	SAFETY SWITCH	For test purpose	0	0 - 6	
2	FAN MANUAL SWITCH	0: Auto, 1: Manual	0	0 - 3	
3	FAN1 MANUAL VOLTAGE	Fan Voltage (unit : 0.1V) Effective only when Fan Maual switch is 1	100	0 - 255	
4	FAN2 MANUAL VOLTAGE		100	0 - 255	
5	FAN3 MANUAL VOLTAGE		100	0 - 255	
6	Not used				

Group 253	Fan Tem Error Setting (Memorized)		Normal	Ceiling	HiLand-Normal	HiLand-Ceiling		
0	Temp A Warning (High)	Temp. A to judge the Temp Error at High (Room)	49	49	46	46	30-100	
1	Temp B Warning (High)	Temp. B to judge the Temp Error at High (Panel)	63	63	60	60	30-100	
2	Temp C Warning (High)	Temp. C to judge the Temp Error at High (Lamp)	66	66	65	65	30-100	
3	Temp B-A Warning (High)	Temp. B-A to judge the Temp Error at High (Clogging Det.)	100	100	100	100	0-100	
4	Temp C-A Warning (High)	Temp. C-A to judge the Temp Error at High (Clogging Det.)	100	100	100	100	0-100	
5	Temp A Warning (Normal)	Temp. A to judge the Temp Error at Normal (Room)	49	49	46	46	30-100	
6	Temp B Warning (Normal)	Temp. B to judge the Temp Error at Normal (Panel)	62	62	60	60	30-100	
7	Temp C Warning (Normal)	Temp. C to judge the Temp Error at Normal (Lamp)	66	66	65	65	30-100	
8	Temp B-A Warning (Normal)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
9	Temp C-A Warning (Normal)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
10	Temp A Warning (Eco)	Temp. A to judge the Temp Error at Eco (Room)	47	47	46	46	30-100	
11	Temp B Warning (Eco)	Temp. B to judge the Temp Error at Eco (Panel)	61	61	60	60	30-100	
12	Temp C Warning (Eco)	Temp. C to judge the Temp Error at Eco (Lamp)	65	65	65	65	30-100	
13	Temp B-A Warning (Eco)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial				Range	Note
14	Temp C-A Warning (Eco)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
15	Temp A Warning Offset (Temp)	Offset of Temp Error (Temp.) Error Setting Value is increased XC at the below condition * Standby * Right to turn on the lamp *Right to change the Lamp mode	5				0-100	
16	Temp B Warning Offset (Temp)		5				0-100	
17	Temp C Warning Offset (Temp)		15				0-100	
18	Temp B-A Warning Offset (Temp)		0				0-100	
19	Temp C-A Warning Offset (Temp)		0				0-100	
20	Temp A Warning Offset (Time)	Offset of Temp Error (Minutes) Error Setting Value is increased X minute at the below condition * Standby * Right to turn on the lamp *Right to change the Lamp mode	5				0-100	
21	Temp B Warning Offset (Time)		5				0-100	
22	Temp C Warning Offset (Time)		18				0-100	
23	Temp B-A Warning Offset (Time)		1				0-100	
24	Temp C-A Warning Offset (Time)		1				0-100	
25	Factory Mode	For factor use	0				0-1	
Group 254	**Fan Control Range Setting (Temp./Voltage)**		Normal	Ceiling	HiLand-Normal	HiLand-Ceiling		
0	High Fan Control Min Temp	Temp Senser Control Start/End Temp. at High	40	40	44	44	20-100	
1	High Fan Control Max Temp		46	46	44	44	20-100	
2	High Fan1 Min	Fan voltage value at High (unit: 0.1V)	75	75	135	135	0-255	
3	High Fan1 Max		135	135	135	135	0-255	
4	High Fan2 Min		85	85	130	130	0-255	
5	High Fan2 Max		130	130	130	130	0-255	
6	High Fan3 Min		75	80	80	85	0-255	
7	High Fan3 Max		80	85	80	85	0-255	
8	High Fan4 Min		9999		9999		-	
9	High Fan4 Max		9999		9999		-	
10	Normal Fan Control Min Temp	Temp Senser Control Start/End Tem.p at Normal	40	40	44	44	20-100	
11	Normal Fan Control Max Temp		46	46	44	44	20-100	
12	Normal Fan1 Min	Fan voltage value at Normal (unit: 0.1V)	67	67	125	125	0-255	
13	Normal Fan1 Max		125	125	125	125	0-255	
14	Normal Fan2 Min		75	75	120	120	0-255	
15	Normal Fan2 Max		120	120	120	120	0-255	
16	Normal Fan3 Min		70	65	75	70	0-255	
17	Normal Fan3 Max		75	70	75	70	0-255	
18	Normal Fan4 Min		9999		9999		-	
19	Normal Fan4 Max		9999		9999		-	
20	Eco Fan Control Min Temp	Temp Senser Control Start/End Tem.p at Eco	38	38	44	44	20-100	
21	Eco Fan Control Max Temp		44	44	44	44	20-100	
22	Eco Fan1 Min	Fan voltage value at Eco (unit: 0.1V)	57	57	115	115	0-255	
23	Eco Fan1 Max		115	115	115	115	0-255	
24	Eco Fan2 Min		70	70	110	110	0-255	
25	Eco Fan2 Max		110	110	110	110	0-255	
26	Eco Fan3 Min		55	55	55	55	0-255	
27	Eco Fan3 Max		55	55	55	55	0-255	
28	Eco Fan4 Min		9999		9999		-	
29	Eco Fan4 Max		9999		9999		-	
Group 255	**Fan Start/Cooling Setting**							
0	Fan1 Initial Volt	Fan Start Voltage (0.1V)	70				0-255	
1	Fan2 Initial Volt		70				0-255	
2	Fan3 Initial Volt		70				0-255	
3	Not used		9999				-	
4	Fan1 Cooling Speed	Fan Voltage at Power Off (0.1V)	130				0-255	
5	Fan2 Cooling Speed		130				0-255	
6	Fan3 Cooling Speed		130				0-255	
7	Not used		9999				-	
8	Cooling Time L1	Cooling Time stting at Fan Mode L1 (x 30 sec) 1: 30, 3: 90, 15: 450 sec.	2				1-15	
9	Cooling Time L2	Cooling Time stting at Fan Mode L2 (x 30 sec) 1: 30, 3: 90, 15: 450 sec.	3				1-15	
10	Temp Error Cooling Time	Cooling Time setting at Temp Erro (x 30 sec)	3				1-15	
11	OnStart Cooling Start Threshold		38				0-100	
12	After shutdown cooling	Cooling after shutdown (0: No, 1: Yes)	1				0-1	
Group 256	**Fan Lamp Voltage Down Setting**							
0	Lamp Voltage	Current Lamp Voltage (0.1V)(Read only)	-				0-255	
1	Lamp Vol Threshold	Threshold to judge Lamp Voltage Down (V× 10)					30-90	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
2	Fan1 Speed Gain	Additional Fan Speed of Min at Lamp Voltage Down (unit: 0.1V)		0-255	
3	Fan2 Speed Gain			0-255	
4	Fan3 Speed Gain			0-255	
5	not used		9999	0-255	
Group 257	**Fan Dimmer Setting**				
0	Dimmer Average Check Period	Dimmer Avarage measurement Time (0:10sec, 1:30sec, 2:6sec, 90sec...10:300sec)	1	0-10	
1	Dimmer Average	Dimmer Avarage Value (Read only)	-		
2	Last Voltage Difference		-		
3	Voltate Difference Goal				
Group 258	**Fan IC Temp for Netowrk model**				
0	Standby Cooling Check Cycle	Temp A check cycle at Standby			
1	Standby Cooling Start Threshold	Cooling start threshold temp A			
2	Standby Cooling Enable	Cooling in standby Ebable			
Group 260	**Auto Calibration (Commn) * Auto Calibration**				
0	Execute Calibration		0	0 - 1	Executes Auto-Calibration when changiing the Value (PC White 100%)
1	Loop Count	Maximum Execution Times (OFFSET->GAIN)	10	1 - 30	
2	Auto Status	Result of Auto-Calibration (Last Memory)	0	0 / 1 / 9	0: OK, 1: Adjusting,9: Error * ReadOnly
3	AutoWait	Wait Value for each setting	1	1 - 20	
4	CHECK -Tolelance	Torelance of OFFSET	2	1 - 255	
Group 261	**Auto Calibration (RGB)**				
0	OFFSET AREA H START	Black Level Acquiring Area H-Start Position	975	0 - 1000	
1	OFFSET AREA V START	Black Level Acquiring Area V-Start Position	500	0 - 1000	
2	GAIN AREA H START	White Level Acquiring Area H-Start Position	25	0 - 1000	
3	GAIN AREA V START	White Level Acquiring Area V-Start Position	500	0 - 1000	
4	Image AREA H WIDTH	Black/White Level Acquiring Area	13	0 - 4095	
5	Image AREA V HIGHT	Black/White Level Acquiring Area Height	9	0 - 4095	
6	OFFSET target	Target Value of Black Level Adj.	3	0 - 127	
7	OFFSET torelance	Torelance of Black Level Adj.	1	1 - 127	
8	GAIN target	Target Value of White Level Adj.	238	0 - 255	
9	GAIN torelance	Torelance of White Level Adj.	1	1 - 255	
Group 262	**Auto Calibration (CVBS/SVIDEO)**				
0	Y Image Area Start X	Y Acquiring Area H-Start Position	20	0 - 1000	
1	Y Image Area Start Y	Y Acquiring Area V-Start Position	500	0 - 1000	
6	Image Area H Width	Image Level Acquiring Area	13	0 - 4095	
7	Image Area V Hight	Image Level Acquiring Area Height	20	0 - 4095	
8	Y Target Level	Target Value of Y Level Adj.	217	0 - 255	
11	Gain Tolerance	Torelance of Level Adj.	1	0 - 255	
12	Delta Gain	Deviation Width of Gain Value	9	0 - 255	
Group 264	**Auto Calibration (YCbCr)**				
0	Y-OFFSET AREA H START	Y - Offset Acquiring Area H-Start Position	925	0 - 1000	
1	Y-OFFSET AREA V START	Y - Offset Acquiring Area V-Start Position	500	0 - 1000	
2	CB - OFFSET AREA H START	CB - Offset Acquiring Area H-Start Position	925	0 - 1000	If not used: use Y's value
3	CB - OFFSET AREA V START	CB - Offset Acquiring Area V-Start Position	500	0 - 1000	If not used: use Y's value
4	CR - OFFSET AREA H START	CR - Offset Acquiring Area H-Start Position	925	0 - 1000	If not used: use Y's value
5	CR - OFFSET AREA V START	CR - Offset Acquiring Area V-Start Position	500	0 - 1000	If not used: use Y's value
6	Y - GAIN AREA H START	Y	50	0 - 1000	
7	Y - GAIN AREA V START		500	0 - 1000	
8	CB - GAIN AREA H START		800	0 - 1000	
9	CB - GAIN AREA V START		500	0 - 1000	
10	CR - GAIN AREA H START		700	0 - 1000	
11	CR - GAIN AREA V START		500	0 - 1000	
12	Image AREA H WIDTH	YCBCR Level Acquiring Area	8	0 - 4095	
13	Image AREA V HIGHT	YCBCR Level Acquiring Area Height	9	0 - 4095	
14	Y - OFFSET TARTGET		4	0 - 255	
15	CB OFFSET TARGET		128	0 - 255	
16	CR OFFSET TARGET		128	0 - 255	
17	Y - GAIN TARGET		217	0 - 255	
18	CB - GAIN TARGET		237	0 - 255	
19	CR - GAIN TARGET		237	0 - 255	
20	OFFSET torelance	Torelance of OFFSET Adj.	1	1 - 255	
21	GAIN torelance	Torelance of GAIN Adj.	1	1 - 255	
Group 280	**AutoPC Adjsut**				
0	AutoPCAdjustEnable	Auto-PC Adj Operation Enable if Un-supported Signal Input	0	0 - 1	0: Enable, 1: Disable
1	Frequency Step	Frequency Steps of TotalDot	1	0-3	
2	Frequency Threshold	Total Dot Freqency Threshold	5	0 - 10	0 [] <--- -----> 10[Not matched]

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
3	Fine Phase	Do Phase Adj after Total Dot Adj.	1	0 - 1	0: Executes Fine Phase, 1: Not Execute
4	BLKDET	Black Level Detection Area	1	0 - 3	
5	PHASEMSK	Phase Detection Filter	0	0 - 3	0: Effective All Bit, 1: Disable Lower 1 bit 2: Disable Lower 2 bit, 3: Disable Lower 3 bit
Group 290	**PanelType * Panel Type Check**				
0	GammaL/R-View	Current Setting Check	0	0-20	0: Gamma for L-Turn 20: Gamma for R-Turn * Read only
1	GammaL/R-Change	Setting of Gamma	10	0-20	Sets L-Turn Gamma if the Value is set to 0. Sets R-Turn Gamma if the Value is set to 20.
Group 500	**Composite (NTSC) Composite / S-Video**				
0					
1	Disp Dots		668	0 ~ 4095	
2	H Back Porch		28	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		458	0 ~ 4095	
Group 501	**Composite (PAL) Composite / S-Video**				
0					
1	Disp Dots		658	0 ~ 4095	
2	H Back Porch		34	0 ~ 4095	
3	V Back Porch		22	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
Group 502	**Composite (SECAM) Composite / S-Video**				
0					
1	Disp Dots		652	0 ~ 4095	
2	H Back Porch		28	0 ~ 4095	
3	V Back Porch		22	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
Group 510	**SCART(480i)**				
0					
1	Disp Dots		662	0 ~ 4095	
2	H Back Porch		142	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		456	0 ~ 4095	
Group 511	**SCART (575i)**				
0					
1	Disp Dots		458	0 ~ 4095	
2	H Back Porch		162	0 ~ 4095	
3	V Back Porch		64	0 ~ 4095	
4	Disp Line		534	0 ~ 4095	
Group 520	**YCbCr (480i)**				
0	Total Dots		890	0 ~ 4095	
1	Disp Dots		696	0 ~ 4095	
2	H Back Porch		150	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		458	0 ~ 4095	
Group 521	**YCbCr (575i)**				
0	Total Dots		920	0 ~ 4095	
1	Disp Dots		704	0 ~ 4095	
2	H Back Porch		170	0 ~ 4095	
3	V Back Porch		62	0 ~ 4095	
4	Disp Line		542	0 ~ 4095	
Group 522	**YCbCr (480P)**				
0	Total Dots		858	0 ~ 4095	* Read only
1	Disp Dots		684	0 ~ 4095	
2	H Back Porch		138	0 ~ 4095	
3	V Back Porch		46	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
Group 523	**YCbCr (575P)**				
0	Total Dots		862	0 ~ 4095	* Read only
1	Disp Dots		680	0 ~ 4095	
2	H Back Porch		148	0 ~ 4095	
3	V Back Porch		60	0 ~ 4095	
4	Disp Line		538	0 ~ 4095	
Group 524	**YCbCr (720P - 60)**				
0	Total Dots		1650	0 ~ 4095	* Read only
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		314	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	

Electrical Adjustments

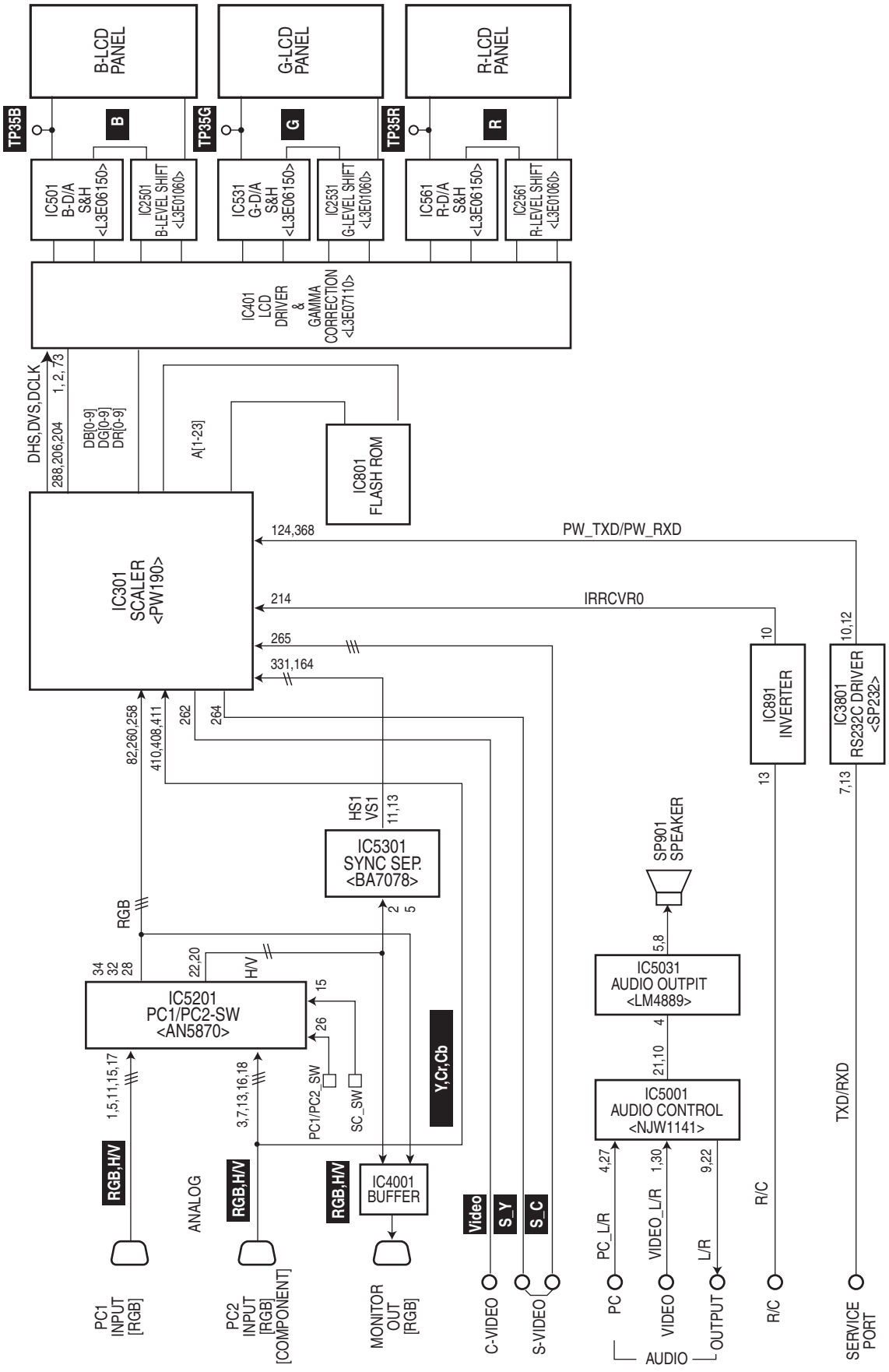
Group/ Item	Item Name	Function	Initial	Range	Note
4	Disp Line		700	0 ~ 4095	
Group 525	**YCbCr (720P - 50)**				
0	Total Dots		1980	0 ~ 4095	* Read only
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		338	0 ~ 4095	
3	V Back Porch		36	0 ~ 4095	
4	Disp Line		700	0 ~ 4095	
Group 526	**YCbCr (1080i - 60)**				
0	Total Dots		2200	0 ~ 4095	* Read only
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		258	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
Group 527	**YCbCr (1080i - 50)**				
0	Total Dots		2640	0 ~ 4095	* Read only
1	Disp Dots		1870	0 ~ 4095	
2	H Back Porch		258	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
Group 528	**YCbCr (1035i)**				
0	Total Dots		2200	0 ~ 4095	* Read only
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		258	0 ~ 4095	
3	V Back Porch		88	0 ~ 4095	
4	Disp Line		1012	0 ~ 4095	
Group 540	**RGB Video (480i)**				
0	Total Dots		960	0 ~ 4095	
1	Disp Dots		752	0 ~ 4095	
2	H Back Porch		166	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 541	**RGB Video (575i)**				
0	Total Dots		966	0 ~ 4095	
1	Disp Dots		736	0 ~ 4095	
2	H Back Porch		182	0 ~ 4095	
3	V Back Porch		66	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 542	**RGB Video (480P)**				
0	Total Dots		960	0 ~ 4095	
1	Disp Dots		766	0 ~ 4095	
2	H Back Porch		156	0 ~ 4095	
3	V Back Porch		46	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 543	**RGB Video (575P)**				
0	Total Dots		986	0 ~ 4095	
1	Disp Dots		774	0 ~ 4095	
2	H Back Porch		174	0 ~ 4095	
3	V Back Porch		62	0 ~ 4095	
4	Disp Line		540	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 544	**RGB Video (720P - 60)**				
0	Total Dots		1650	0 ~ 4095	
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		310	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		702	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	

Electrical Adjustments

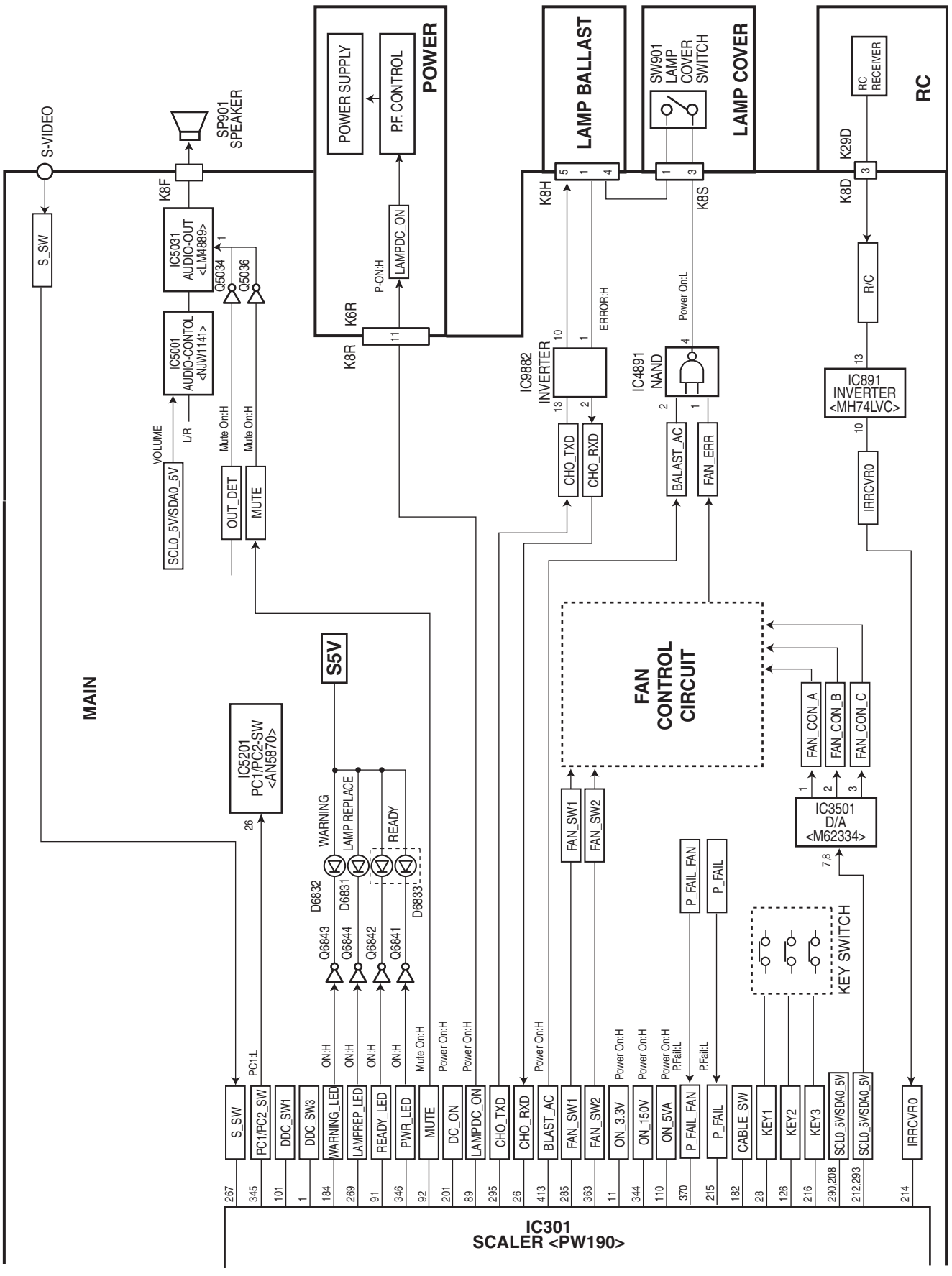
Group/ Item	Item Name	Function	Initial	Range	Note
Group 545	**RGB Video (720P - 50)**				
0	Total Dots		1980	0 ~ 4095	
1	Disp Dots		1246	0 ~ 4095	
2	H Back Porch		310	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		702	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 546	**RGB Video (1080i - 60)**				
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		254	0 ~ 4095	
3	V Back Porch		56	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 547	**RGB Video (1080i - 50)**				
0	Total Dots		2640	0 ~ 4095	
1	Disp Dots		1868	0 ~ 4095	
2	H Back Porch		258	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 548	**RGB Video (1035i)**				
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1868	0 ~ 4095	
2	H Back Porch		258	0 ~ 4095	
3	V Back Porch		92	0 ~ 4095	
4	Disp Line		1012	0 ~ 4095	
Group 981	**Color Shading Adj Offset**				
0	R-Max		0/0	0-255	
1	R-Mid1		0/0	0-255	
2	R-Mid2		0/0	0-255	
3	R-Min		0/0	0-255	
4	G-Max		0/0	0-255	
5	G-Mid1		0/0	0-255	
6	G-Mid2		0/0	0-255	
7	G-Min		0/0	0-255	
8	B-Max		0/0	0-255	
9	B-Mid1		0/0	0-255	
10	B-Mid2		0/0	0-255	
11	B-Min		0/0	0-255	

Chassis Block Diagrams

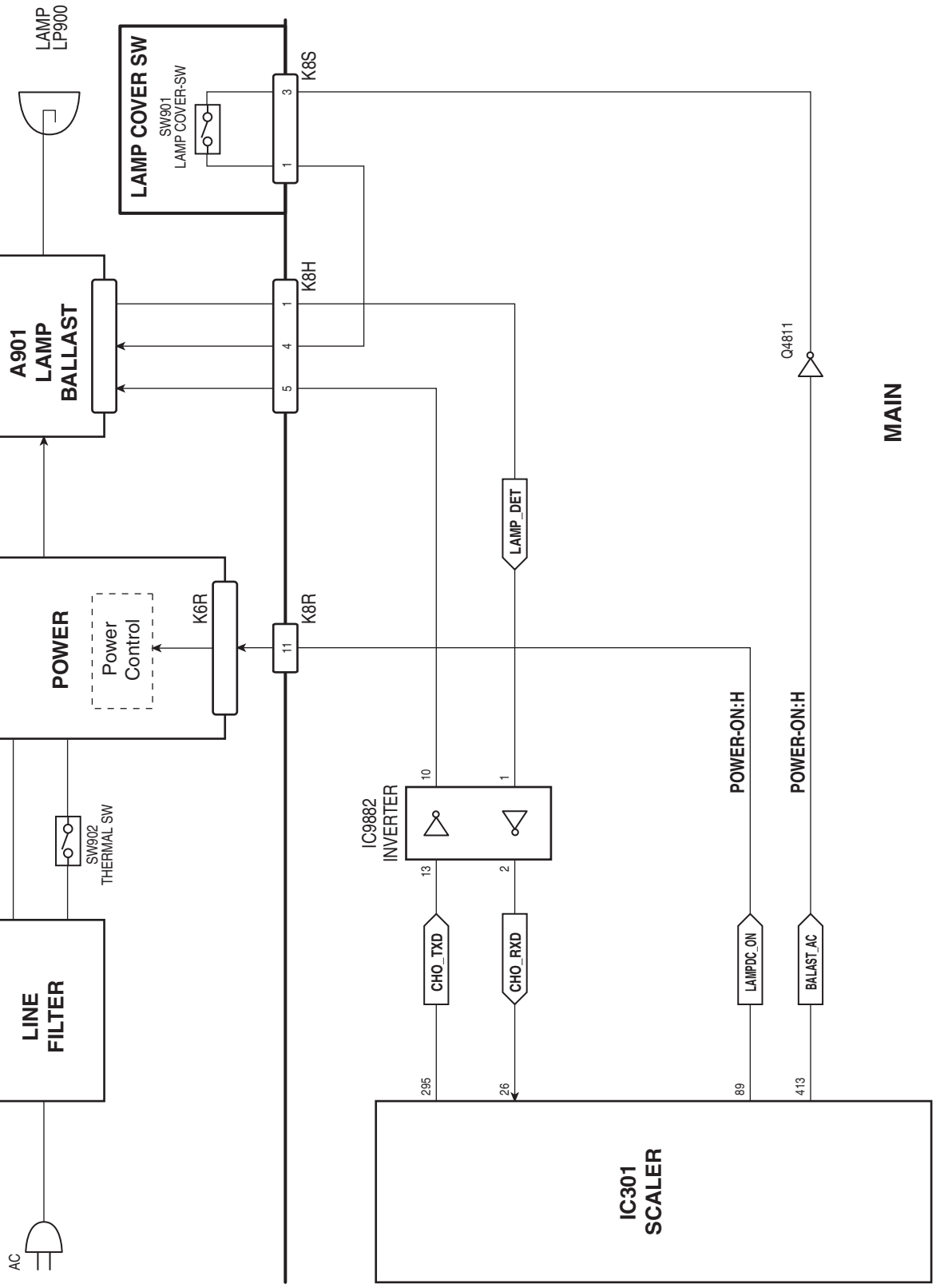
Chassis over view



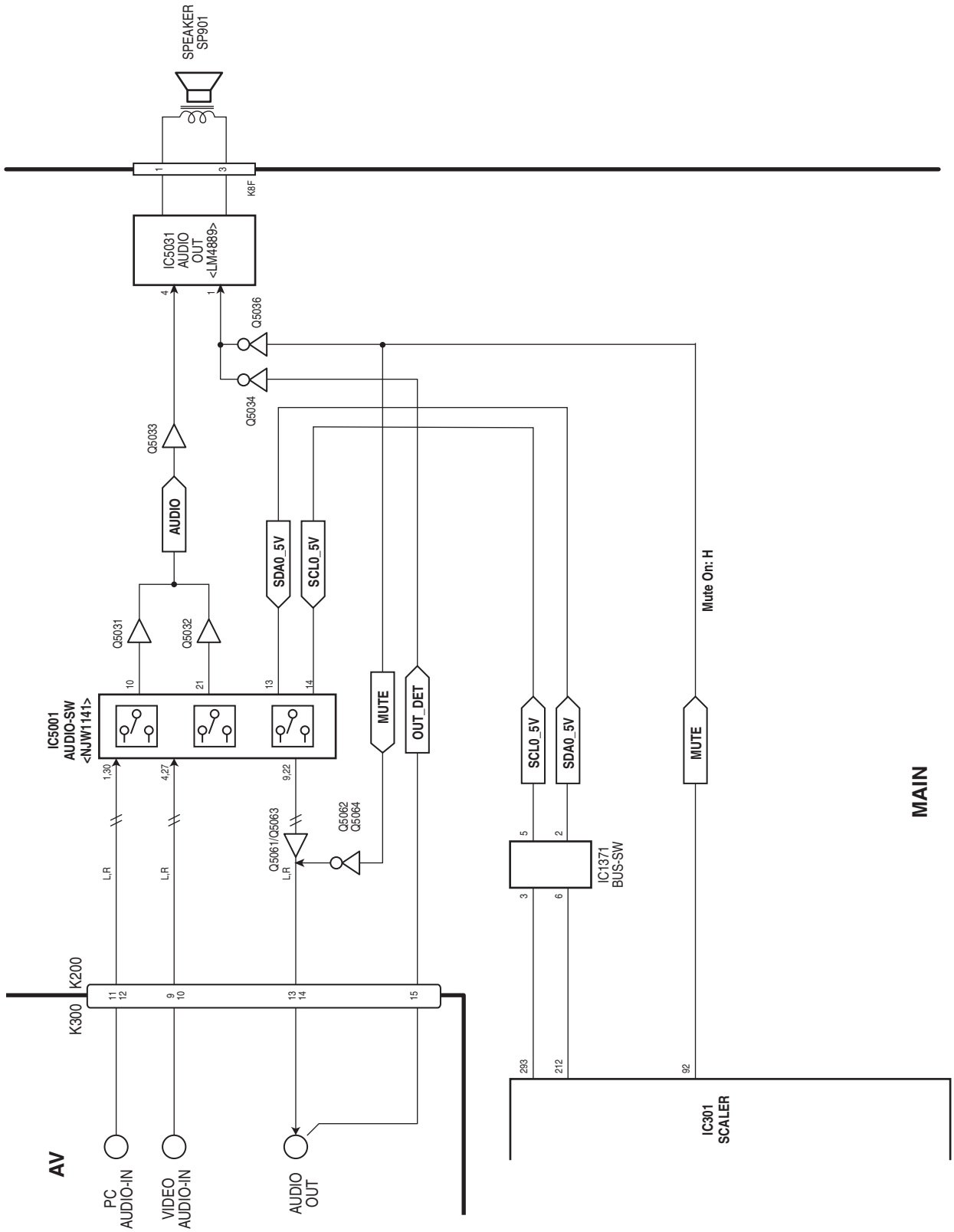
System control



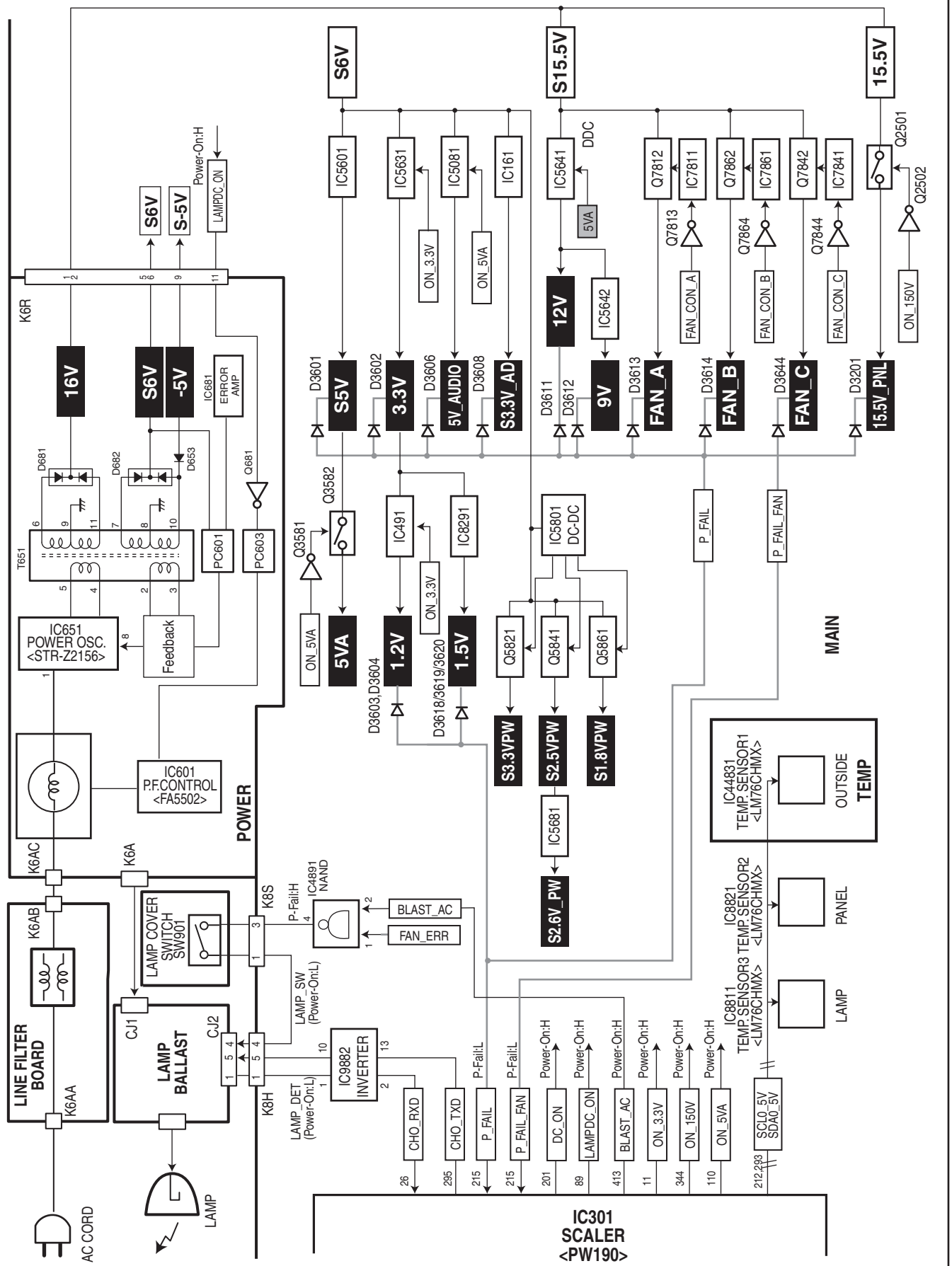
Lamp control



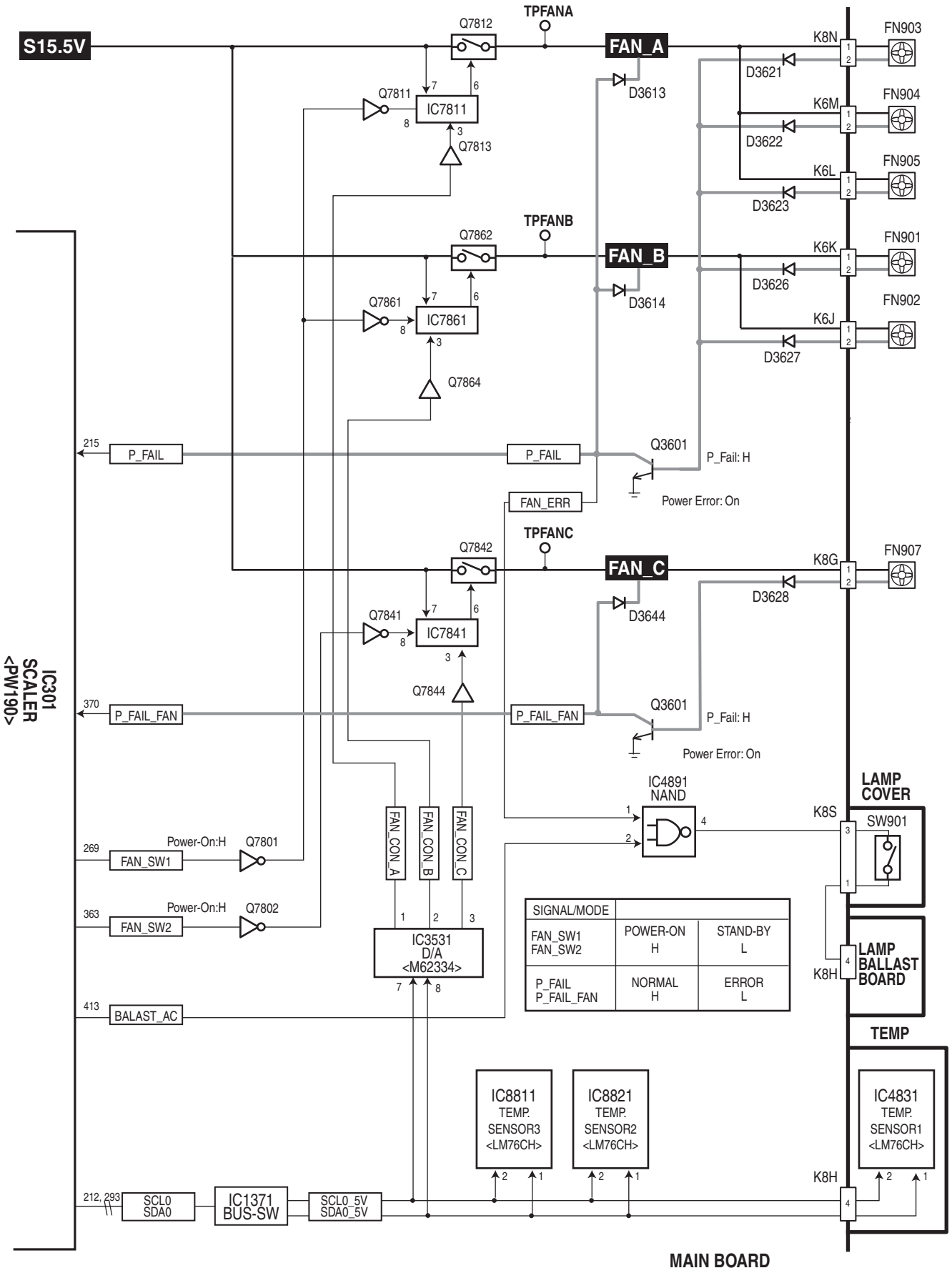
Audio circuit



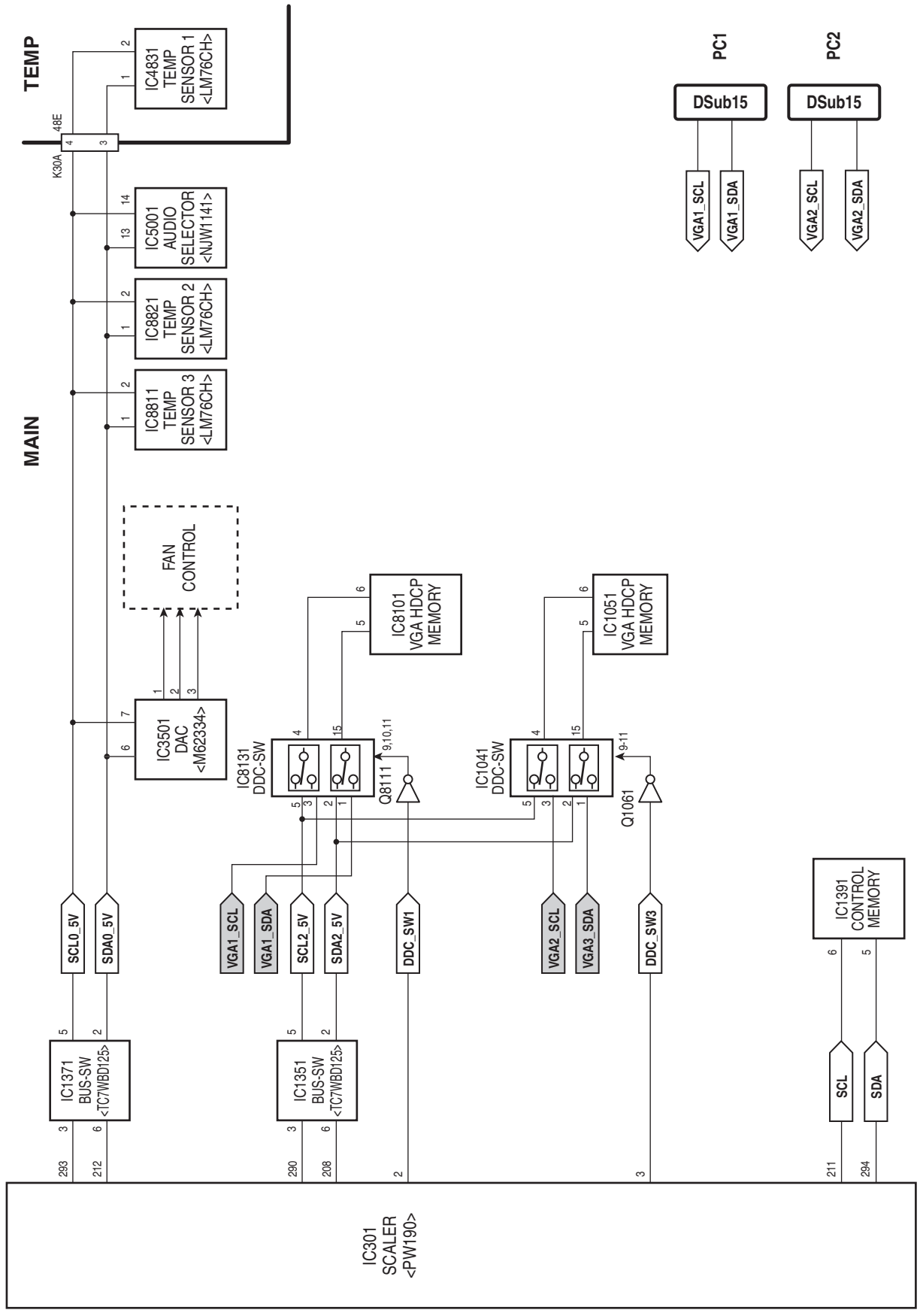
Power supply & protection circuit



Fan control circuit



IIC bus control circuit



Troubleshooting

Indicators and Projector Condition

Check the indicators for projector condition.

Indicators			Projector Condition
POWER red/green	WARNING red	LAMP REPLACE yellow	
●	●	●	The projector is off. (The AC power cord is unplugged.)
◍ (blinking)	●	✱	The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed and the POWER indicator stops blinking.
◍	●	✱	The projector is ready to be turned on with the POWER ON-OFF button.
○	●	✱	The projector is operating normally.
○ (blinking)	●	✱	The projector is in the Power management mode.
◍ (blinking)	◍ (blinking)	✱	The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator emits a red light and the projector can be turned on. (The WARNING indicator keeps blinking.) Check and clean the air filter.
◍	◍ (blinking)	✱	The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING indicator stops blinking. Check and clean the air filter.
●	◍	✱	The projector detects an abnormal condition and cannot be turned on. Check power supply circuit and fans control circuit.

○ • • • green.　　◍ • • • red　　● • • • off

○ (blinking) • • • blinks green.　　◍ (blinking) • • • blinks red.

✱ When the life of the projection lamp draws to an end, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly. Reset the lamp replacement counter after replacement of the lamp.

No Power

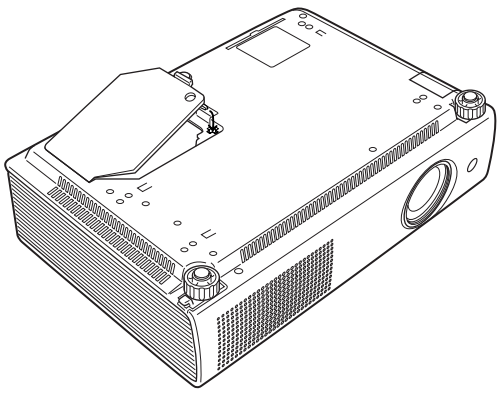
This projector provides a function which can be specified a defective area simply by indicating the LEDs. Connect the AC cord and press the Power button once and then check the LED indication.

- **When all of LED indicators are not lighting** the symptom indicates that the primary power supply circuit does not operate properly. Check the power primary circuit and parts as follow;
  AC cord, F601 (Fuse), Power board,
  SW902 (Thermal sw.) short in normal
  SW902 opens when the surrounding temperature of the switch exceeds 100°C.

- **When the WARNING (red) and POWER(red) indicators are flashing**, the symptom indicates that the projector detected an abnormal temperature risen inside the projector. Check the air filters and remove the object near the intake and exhaust fan openings, and wait until the POWER indicator stops flashing, and then try to turn on the projector.
  The internal temperature is monitored by sensor ICs, IC8811(Lamp), IC8821 (Panel) on the Main board and IC4831 (Room) on the Temp. board

- **When the WARNING indicator lights red**, the symptom indicates that the projector detected an abnormality in the cooling fan operation or in the power supply secondary circuits. Check fan operation and power supply lines, and the driving signal status.
  The P_FAIL signal (Error: L) is sent to pin 215 of IC301<SCALER> when the abnormality occurres inside the projector, and then the IC301 sends the shutdown signal, LAMPDC_ON, to the power supply circuit to stop its operation, and signal BALAST_AC to the lamp ballast board via IC4891 and SW901<lamp cover switch> to stop operation of the lamp circuit.
  An abnormality occurs on the secondary power supply;
  Check power supplies 15.5V, S6V, S-5V. P_FAIL signal becomes “Low” when the abnormality occurs on any of the power supply lines.
  An abnormality occurs on the fan control circuit;
  Check FN901, FN902, FN903, FN904, FN905, FN907 and peripheral circuit.
  If any of the fans has an error, the fan lock signal drives Q3601 or Q3644 becomes on. As the result, signal FAN_ERR becomes Low and is sent to lamp ballast board to stop lamp circuit.
  An abnormality occurs on the drive signals;
  ON_150V signal (Power-on: H) is output from pin 344 of IC301 and switches Q2501,15.5V supply circuit. ON_5VA signal (Power-on: H) is output from pin 110 of IC301 and switches Q3582, 5VA supply circuit and switches IC5081, 5V_AUDIO supply circuit. ON_3.3V signal (Power-on: H) is output from pin 11 of IC301 and switches IC5631, 3.3V supply circuit and IC491, 1.2V supply circuit.
  LAMPDC_ON signal (Power-on: H) is output from pin 89 of IC301 and supplied to the P.F Control IC, IC601, on the power supply board through Q681, and PC603.
  BALAST_AC signal (Power-on: H) is output from pin 413 of IC301 and applied to pin 2 of IC4891 and output pin 4 and then supplied to the lamp ballast board through SW901<Lamp Cover SW>.
  CHO_RXD signal at pin 26 of IC301 is applied from the lamp ballast unit. If the abnormality occurred on the lamp ballast unit, LAMP_DET/CHO_RXD signal becomes “High” and then IC301 shuts down the power supply circuit.

Lamp Cover switch
Make sure that the lamp cover is mounted correctly. If not or the lamp cover removed, the lamp does not light on for the safety. Check the lamp cover and lamp cover switch (SW901).



No Picture

Check following steps.

No picture with all of input sources

Yes →

Check signal processing stage and LCD driving stage;
- Check RGB S&H signals at test points TP35B, TP35G, TP35R1.
- Check power supply circuit 15.5V and peripheral circuit.
- Check ICs IC501, IC531, IC561, IC2501, IC2531, IC2561, IC401, IC301 and peripheral circuits.

No ↓

No picture with PC1 [Analog] input source only

Yes →

Check PC1/PC2-switching stage;
- Check IC5201<PC1/PC2-SW> and peripheral circuit.
- PC1/PC2_SW signal (PC2: H) is output from pin 348 of IC301<Scaler> and applied to pin 26 of IC5201.
  - PC1:L, PC2:H

No ↓

No picture with PC2 [Analog] input source only

Yes →

Check PC1/PC2-switching stage;
- Check IC5201<PC1/PC2-SW> and peripheral circuit.
- PC1/PC2_SW signal (PC2: H) is output from pin 348 of IC301<Scaler> and applied to pin 26 of IC5201.
  - PC1:L, PC2:H

No ↓

No picture with all of computer input sources

Yes →

Check PC/AV source selecting stage and processing stage;
- Check IC5201<PC1/PC2_SW> and IC301<Scaler> and peripheral circuit.

No ↓

No picture with video input sources →

Check AV source selecting and decoding stage;

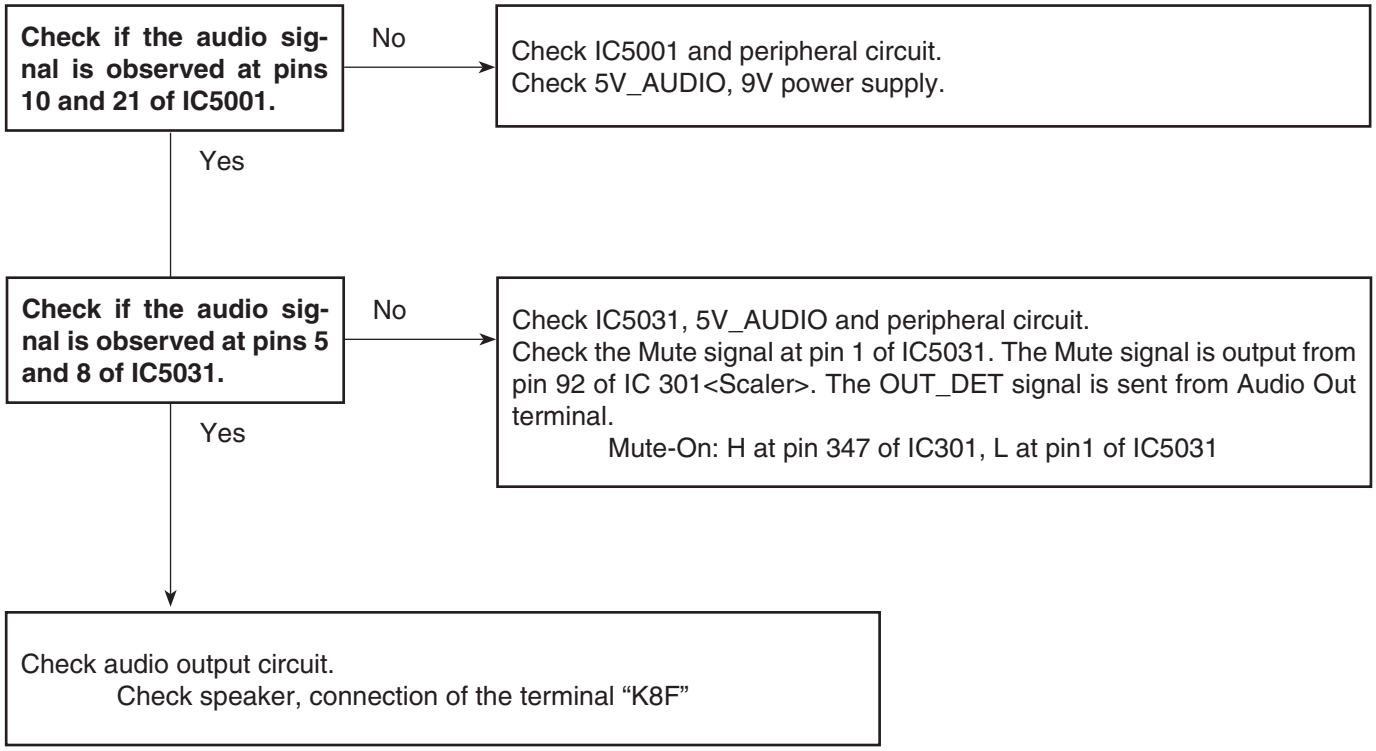
S-Video source
- Check S-video signal (Y/C).
- S-C signal is applied to pin 265 of IC301<Scaler>, and S-Y signal is applied on pin 264 of IC301.
- S_SW signal (S-VIDEO:L) is input to pin 267 of IC301<Scaler>.

Component video source
- Check component signal (Y/Cr,Pr/Cb,Pb).
- The component signals are applied to pins 410, 408, 411 of IC301 <Scaler>.

Composite video source
- Check composite video signal (Video).
- The composite video signal is applied to pins 262 of IC301 <Scaler>.

No Sound

Check following steps.


Check if the audio signal is observed at pins 10 and 21 of IC5001.
No
Check IC5001 and peripheral circuit.
Check 5V_AUDIO, 9V power supply.
Yes
Check if the audio signal is observed at pins 5 and 8 of IC5031.
No
Check IC5031, 5V_AUDIO and peripheral circuit.
Check the Mute signal at pin 1 of IC5031. The Mute signal is output from pin 92 of IC 301<Scaler>. The OUT_DET signal is sent from Audio Out terminal.
Mute-On: H at pin 347 of IC301, L at pin1 of IC5031
Yes
Check audio output circuit.
Check speaker, connection of the terminal “K8F”

Control Port Functions

Scaler I/O Port Functions (PW190)

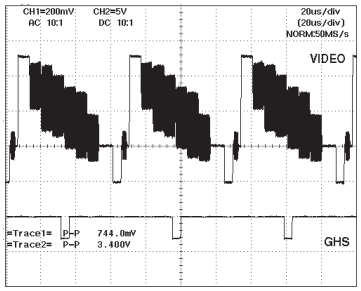
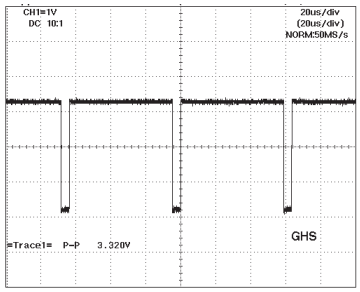
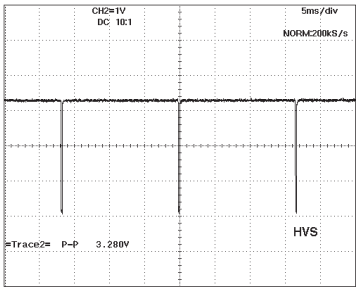
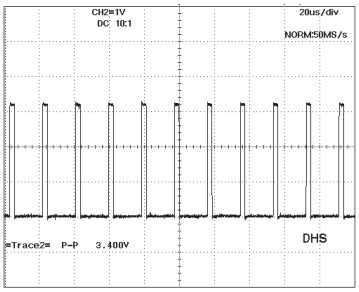
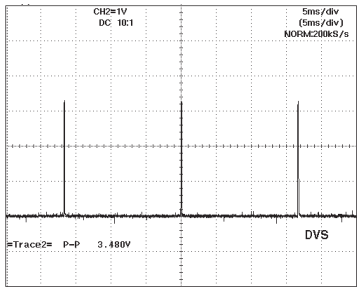
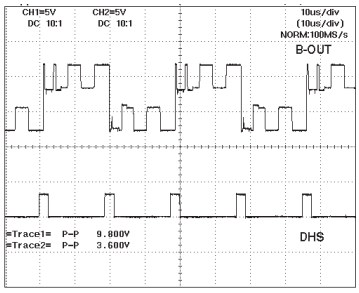
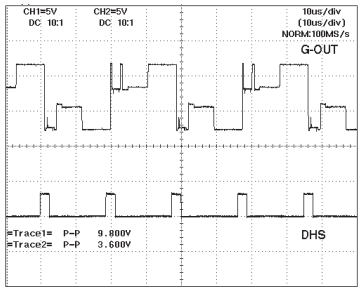
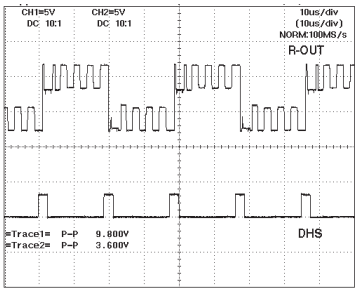
PIN NO.	PORT NO.	PORT NAME	FUNCTION	SIGNAL NAME	DESCRIPTION	I/O
1	A1	PORTD7	DDC_SW3	DDC_SW3	DDC_SW3	O
2	A2	VS_MCI	V-Sync for MCI	VS_MCI	V-Sync. Input for MCI	I
11	A11	PORTC5		ON_3.3V	3.3V Power Drive, Power On: H	O
101	B2	PORTD6	DDC_SW1	DDC_SW1	DDC_SW1	O
102	B3	HS_MCI		HS_MCI	H-Sync. Input for MCI	I
110	B11	PORTC6		ON_5VA	5VA Drive On/Off, On: H	O
111	B12	PORTC1		SCS	3-Wired Serial Control	O
124	B25	TXD_PW		TXD_PW	Serial Control RXD	O
193	C3	CK_MCI		CK_MCI	Clock for MCI	O
201	C11	PORTC7		DC_ON	Power Control, Power On: H	O
202	C12	PORTC2		SDATA	3-Wired Serial Control Data	O
204	C14	DCLKOUT	DCLKOUT	DCLK	IIC Bus Control Clock	O
206	C16	DVS	DVS	DVS	V-Sync. Output	O
208	C18	TWOWSD2	2-Wire Serial Data 2	SDA2	IIC Bus Control Data	O
211	C21	TWOWSC1	2-Wire Serial Clock 1	SCL	IIC Bus Control Clock	O
212	C22	TWOWSD0	2-Wire Serial Data 0	SDA	IIC Bus Control Data	O
214	C24	IRRCVR0	IRRCVR0	IRRCVR0	Remote Controln Sinal Input	I
28	C26	ADC1	ADC1	KEY-1	Key Control Input	I
277	D4	ME_MCI		ME_MCI	DE for MCI	O
278	D5	PORTD5		SIHS	H-Sync. Input fro DVI	I
285	D12	PORTC3		FAN_SW1	Fan Control Switch-1	O
288	D15	DHS	DHS	DHS	H-Sync. Output	O
290	D17	TWOWSC2	2-Wire Serial Clock 2	SCL2	IIC Bus Control Clock	O
293	D20	TWOWSC0	2-Wire Serial Clock 0	SCL0	IIC Bus Control Clock	O
294	D21	TWOWSD1	2-Wire Serial Data 1	SDA1	IIC Bus Control Data	O
295	D22	CHO_TXD		CHO_TXD	Serial Control TXD	O
215	D24	ADC0	ADC0	P_FAIL	Power Failure Signal Input, Failure:L	I
126	D25	ADC2	ADC2	KEY-2	Key Control Input	I
29	D26	ADC6	ADC6	LAMP Option	Lamp Option	I
354	E6	SIVS		SIVS	V-Sync. Input for DVI	I
362	E14	PORTC4		IRM_RST		O
363	E15	PORTC0		FAN_SW2	Fan Control Switch-2	O
367	E19	THRWSC	3-Wire Serial Clock	SCLK	3-Wired Serial Control Clock	O
368	E20	RXD_PW		RXD_PW	Serial Control RXD	I
369	E21	IRRCVR1		IRRCVR1	Wired Remote Control Input	I
370	E22	ADC5		P_FAIL_FAN	Power Failure Signal Input, Failure:L	I
216	E24	ADC3	ADC3	KEY-3	Key Control Input	I
127	E25	ADC7	ADC7	LENS Option	Option Switch LENS	I
30	E26	DAC1	DAC1	FAN_CON_B	Not used	O
298	F23	ADC4	ADC4	BRAND Option	Option Switch BRAND	I
128	F25	DAC2	DAC2	FAN_CON_C	Not used	O
92	K1	PORTB3		MUTE	Sound Mute Drive, Mute On: H	O
270	K3	SICLK		SICLK	Clock for DVI	I
347	K4	SIDEN		SIDEN	SIDEN for DVI	I
91	L1	PORTB5		READY_LED	READY LED Drive, On: H	O
184	L2	PORTB6		WARNING_LED	WARNIG LED Drive Oh: H	O
269	L3	PORTB7		LAMPREP_LED	LAMP REPLACE LED Drive, On: H	O
346	L4	PORTB4		PWR_LED	POWER LED Drive, On: H	O
90	M1	PORTA0		XSTDBYEN	for I/O Expander	O
183	M2	PORTA1		SRESET	fro I/O Expander	O
345	M4	PORTB2		PC1/PC2_SW	PC1/PC2 Switch Output, PC1: H	O
89	N1	PORTA3		LAMPDC_ON	Power Control, Power On: H	O
192	N2	PORTA5		CABLE_SW	Cable Switch Output SCART: Hi	O
267	N3	PORTA6		S_SW	S-Video Input Switch	I
344	N4	PORTA7		ON_150V	15V Power Drive, Power On: H	O
413	N5	PORTA4		BLAST_AC	Lamp Control, Lamp On: H	O
474	N6	PORTA2		WAKEUP	for I/O Expander	O
265	R3	S_C		S_C	S-Chroma SIgnal Input	I

PIN NO.	PORT NO.	PORT NAME	FUNCTION	SIGNAL NAME	DESCRIPTION	I/O
411	R5	CR_IN		CR_IN	Compornent Video (CR) Input	I
86	T1	SCART_CV		SCART_CV	Composite Video Signal Input for SCART	I
264	T3	S_Y		S_Y	S-Y Signal Input	I
410	T5	Y_IN		Y_IN	Compornent Video (Y) Input	I
283	U3	SMUXIN1	SOG MUX input Ch1	SOG	Sync on Green Signal Input	I
409	U5	SMUXIN0	SOG MUX input Ch0	Y_IN	Y Signal Input (Not used)	I
282	V3	BMUXIN1	Blue MUX input Ch1	VIDEO	Video Signal Input	I
408	V5	BMUXIN0	Blue MUX input Ch0	CB_IN	Compornent Video (CB) Input	I
140	V25	MREFIN1	Memory Voltage Reference			
82	Y1	RAI1	Ch1 Analog Input	R	R Signal Input	I
280	Y3	GAI1	Ch1 Analog Input	G	G Signal Input	I
174	AA2	SOG1	SOG Ch1	SOG Ch1	Sync on Green ch1 Input	I
258	AB3	BAI1	Ch1 Analog Input	B	B Signal Input	I
331	AC7	HS1		HS1	H-Sync Input	I
166	AE6	ADCXOUT	Crystal oscillator	X'TAL OUT		
165	AE7	AFETEST3	TestPin	TAFETST3		
162	AE10	RESETB	Reset	PW_RESET	Reset Input	I
161	AE11	VS1	Channel 1 VSync	VS1	V-Sync Input	I
50	AE26	NMI	NMI	NMI	NMI Input	I
72	AF5	ADCXIN	Crystal oscillator	X'TAL IN		

IIC Bus D/A Converter Port Functions (M62334)

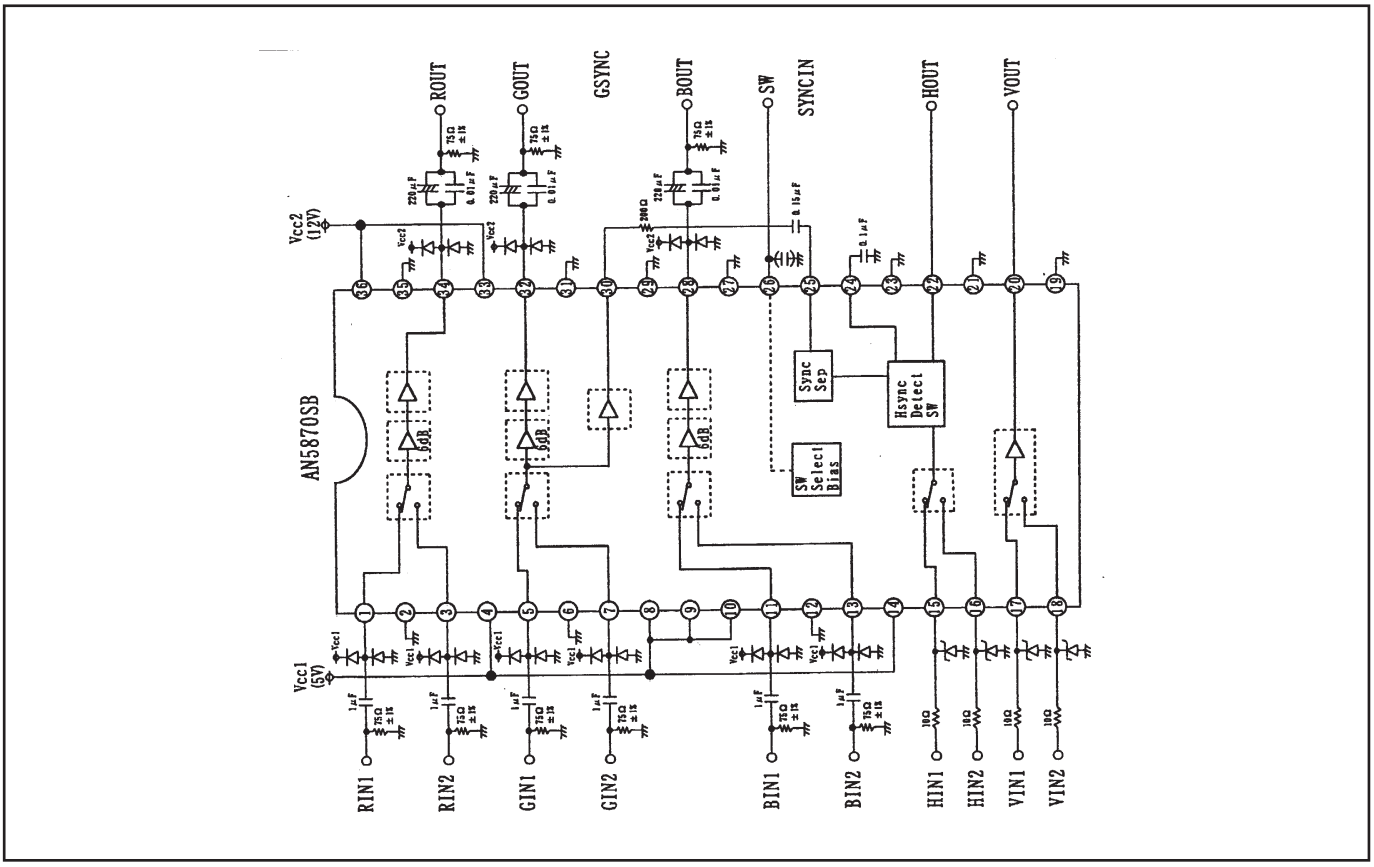
PIN	PORT	NAME	DESCRIPTION	I/O
1	A1	FAN_DAC1	Fan Control Analog Output	AO
2	A2	FAN_DAC2	Fan Control Analog Output	AO
3	A3	FAN_DAC3	Fan Control Analog Output	AO
4	A4	FAN_DAC4	Fan Control Analog Output	AO
5	GND	GND	-	-
6	SDA	SDA	IIC BUS SDA(5V)	I/O
7	SCL	SCL	IIC BUS SCL(5V)	I/O
8	Vcc	Vcc	-	-

Waveform

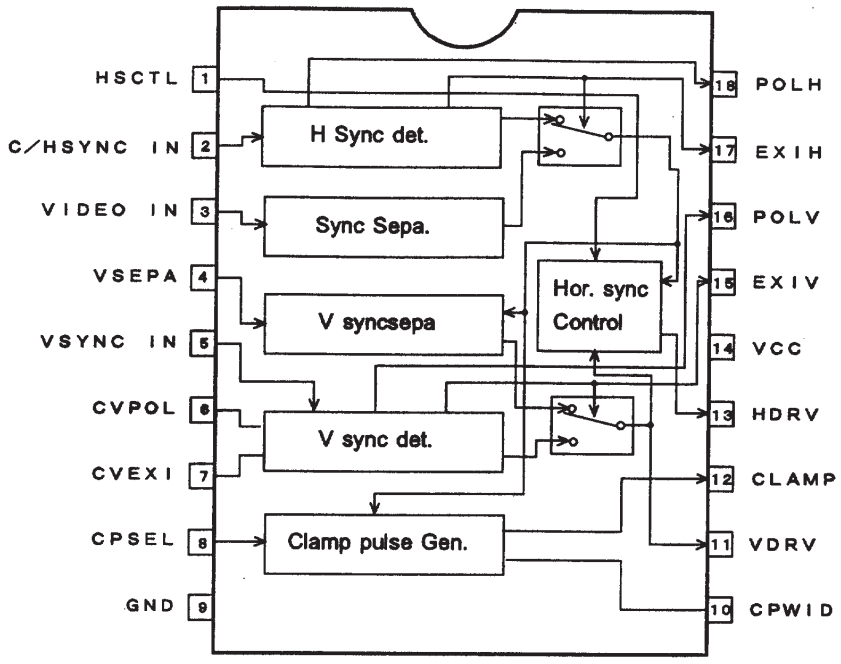
VIDEO signal <VIDEO>	HSYNC signal	VSYNC signal
		
HSYNC signal <TPDHS>	**VSYNC signal <TPDVS>**	
		
R-S&H signal <TP35R>	**G-S&H signal <TP35G>**	**B-S&H signal <TP35B>**
		

IC Block Diagrams

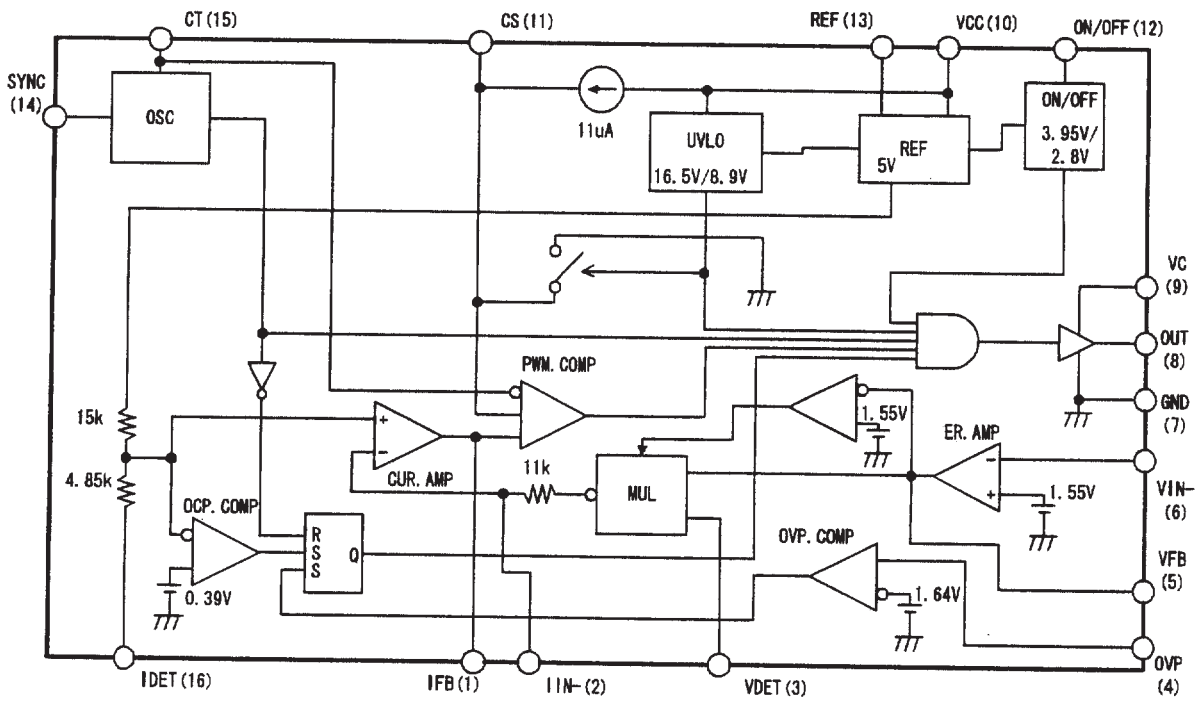
● AN5870 <Signal Switch, IC5201>



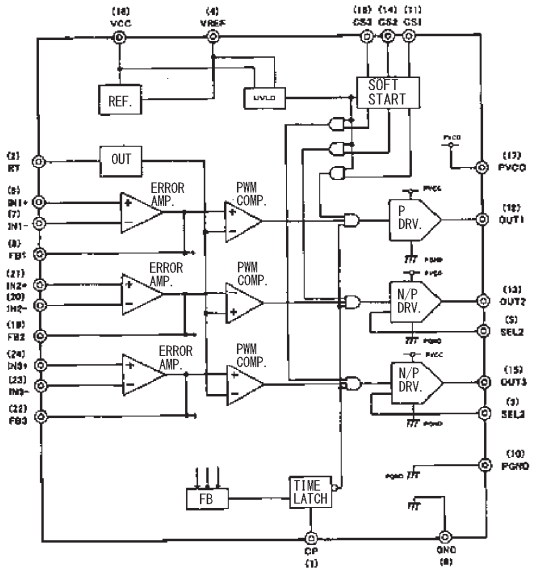
● BA7078 <Sync Separator, IC5301>



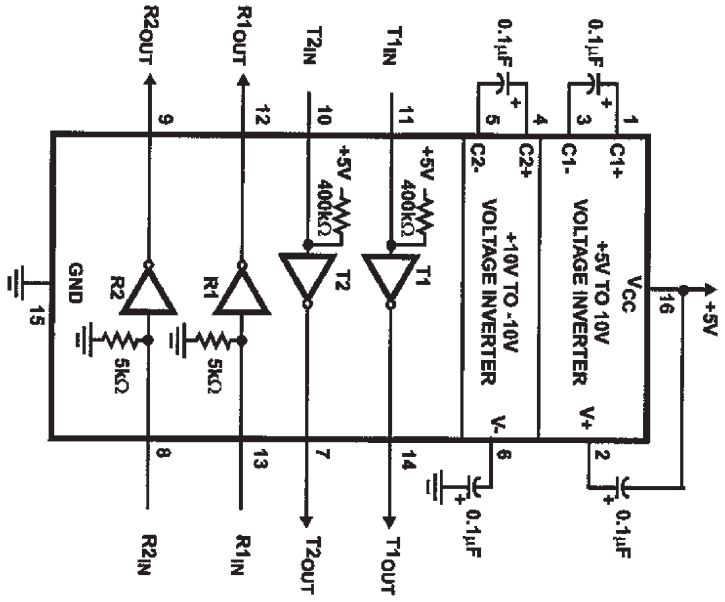
● FA5502 <P.F. Control, IC601>



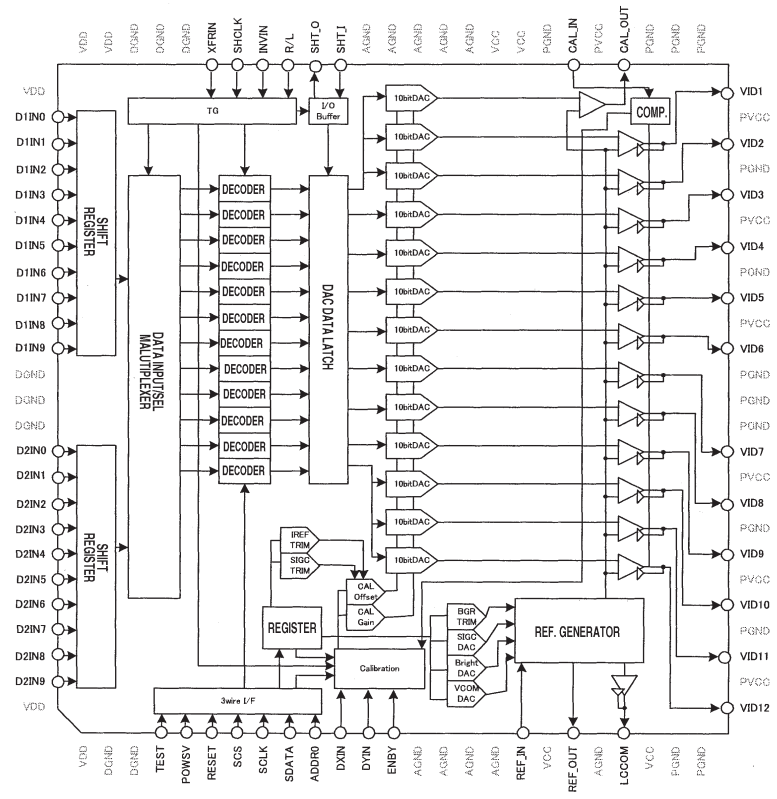
● FA7711 <DC-DC Converter, IC5801>



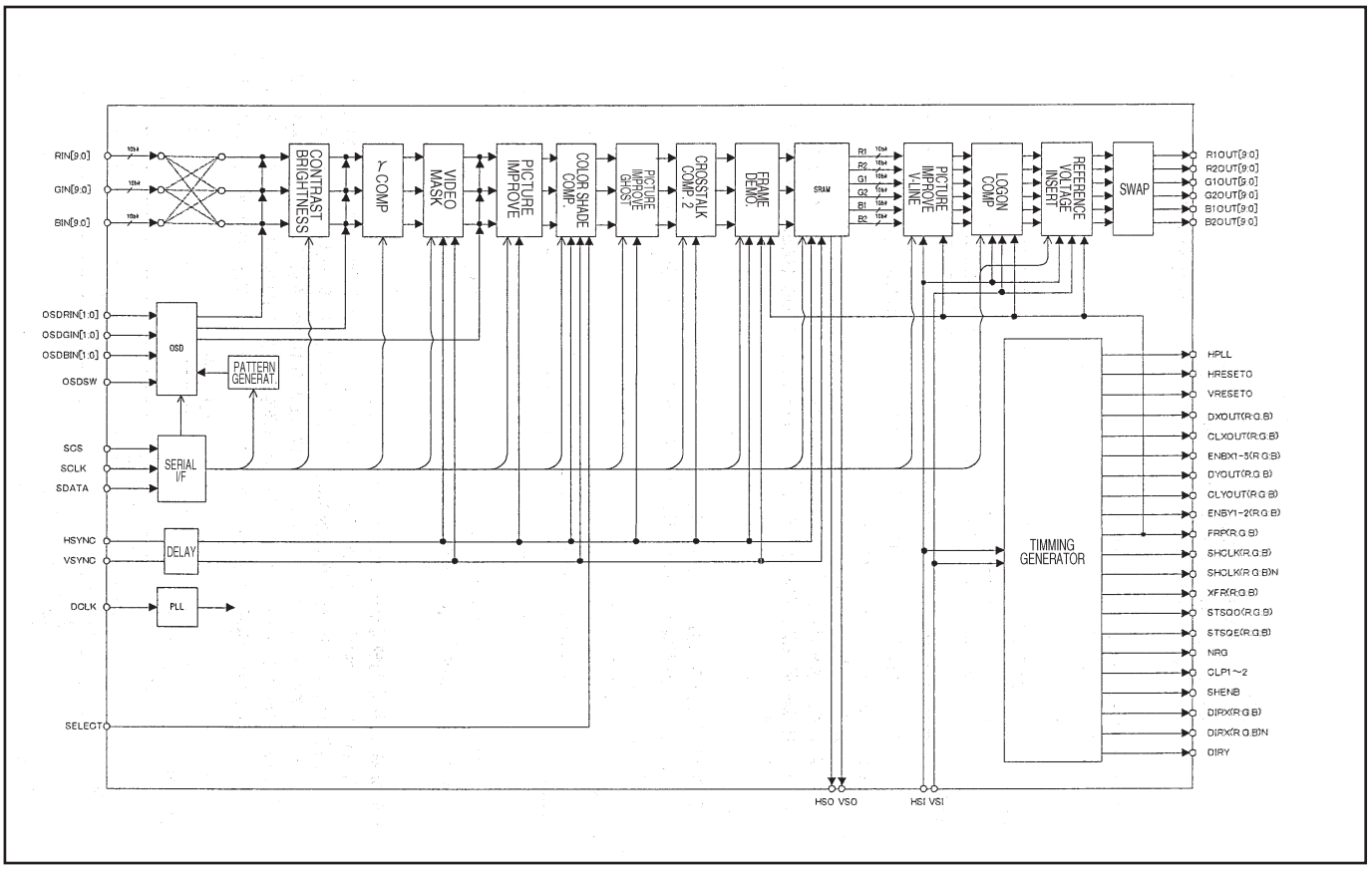
● HIN202EIB <RS-232C Driver, IC3801>



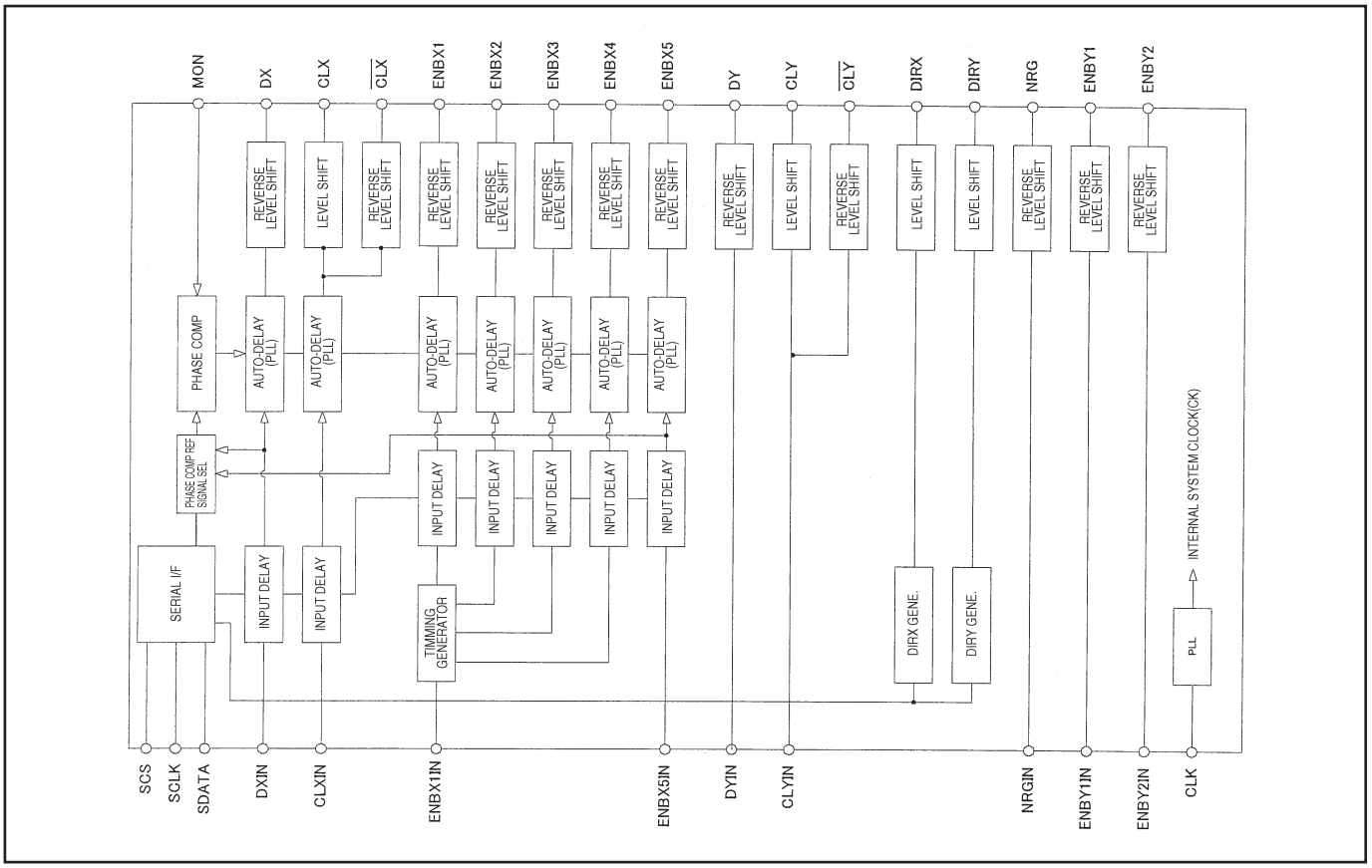
● L3E06150 <D/A, S/H-LCD Driver, IC501, IC531, IC561>



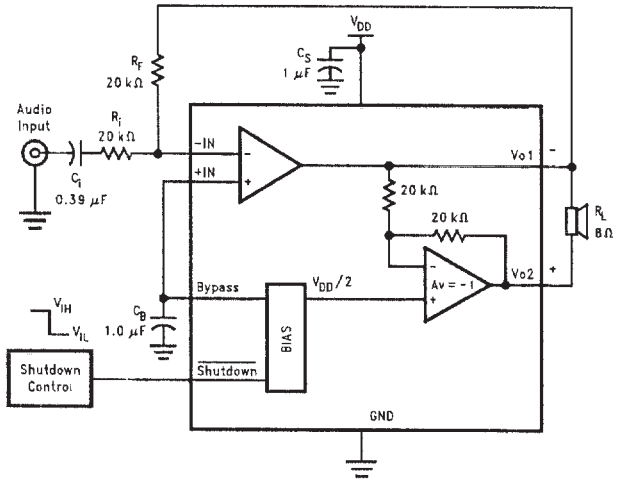
● L3E07110 <LCD Driver & Gamma Correction, IC401>



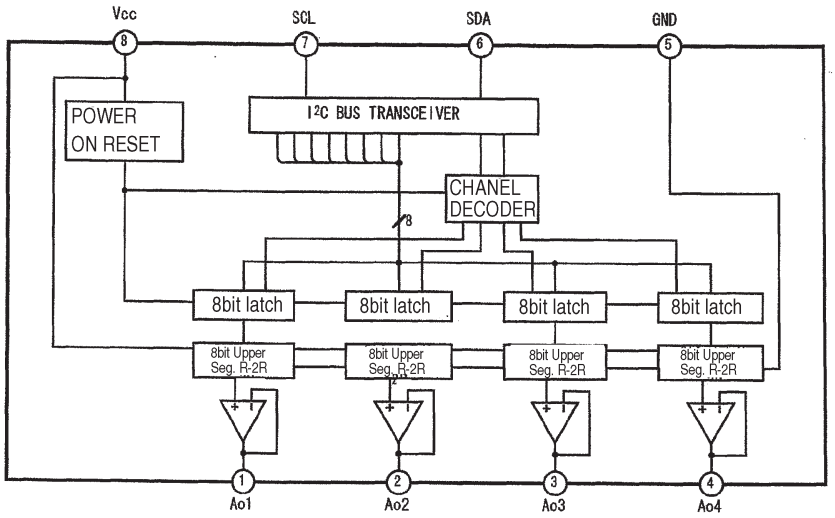
● L3E01060 <Level Shift, IC2501, IC2531, IC2561>



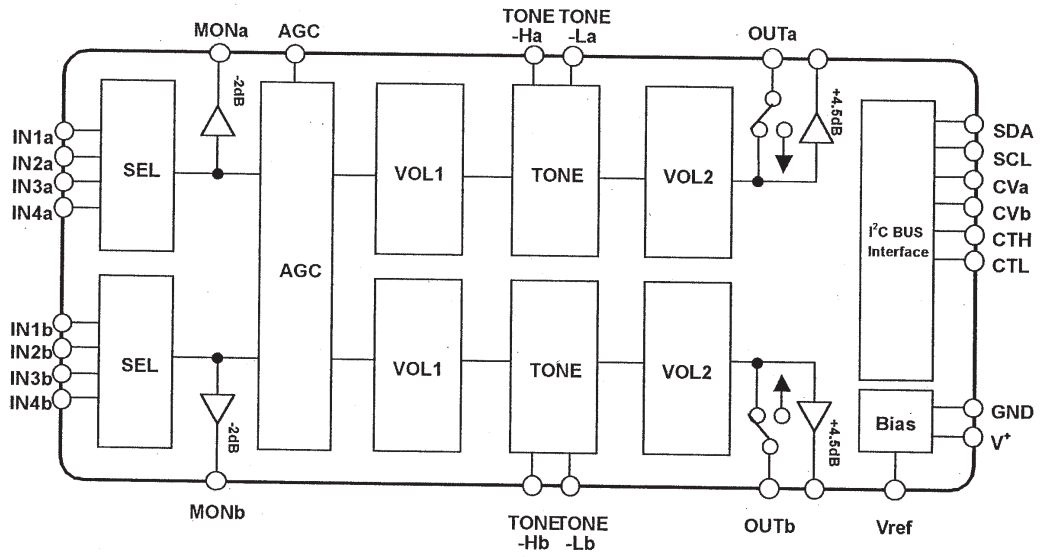
● LM4889 <Audio Output, IC5031>



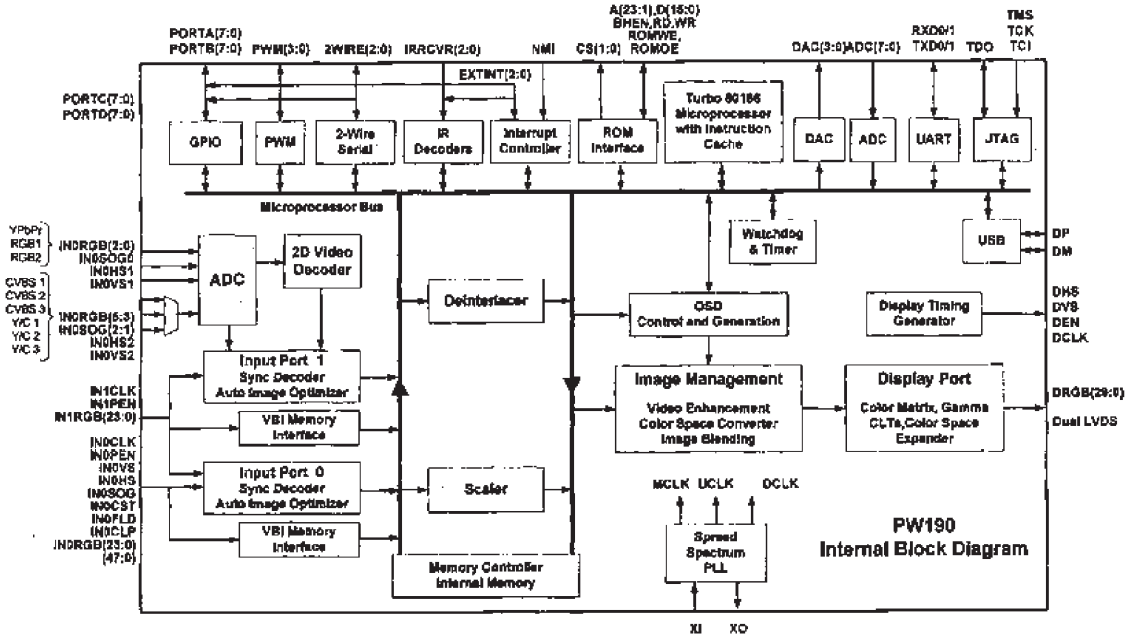
● M62334 <DAC, IC3501>



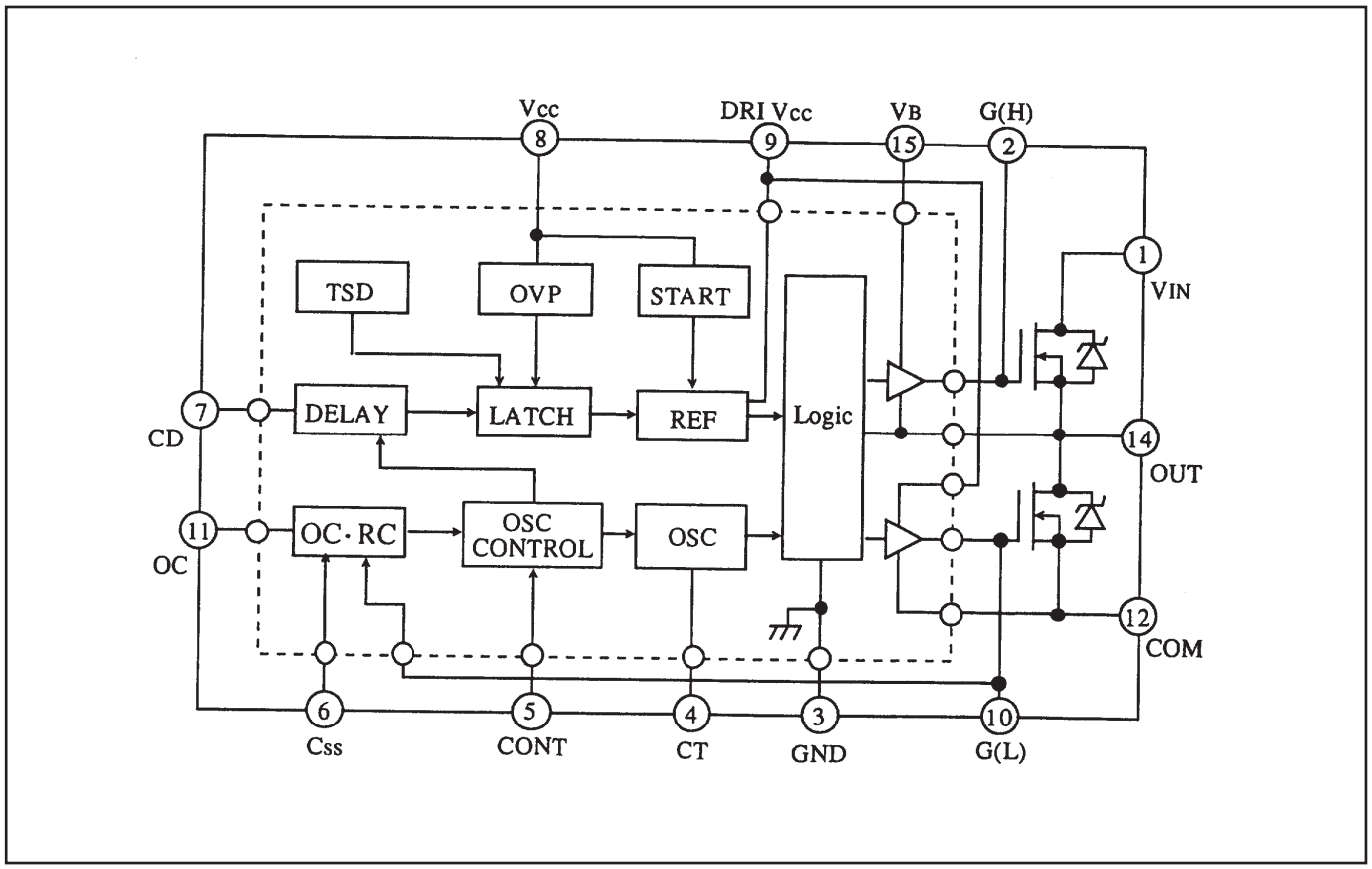
● NJW1141 <Audio Control, IC5001>



● PW190 <Scaler, IC301>



● STR-Z2156<Power OSC, IC651>



Electrical Parts List

Product safety should be considered when a component replacement is made in any area of a projector.
Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

● Read Description in the parts list

Read description in the Capacitor and Resistor as follows:

CAPACITOR CERAMIC 100P K 50V

Rated Voltage

Tolerance Symbols:

Less than 10pF

A : Not specified	B : ±0.1pF	C : ±0.25pF
D : ±0.5pF	E : +0 -1pF	F : ±1PF
G : ±2pF	H : +0.1 -0pF	L : +0 -0.1pF
R : ±0.25 -0pF	S : +0-0.25pF	

More than 10pF

A : Not specified	B : ±0.1%	C : ±0.25%
D : ±0.5%	F : ±1%	G : ±2%
H : ±3%	J : ±5%	K : ±10%
L : ±15%	M : ±20%	N : ±30%
P : +100-0%	Q : +30-10%	T : +50-10%
U : +75-10%	V : +20-10%	W : +100-10%
X : +40-20%	Y : +150-10%	Z : +80-20%

Rated value: P=pico farad, U=micro farad

Material:

CERAMIC	Ceramic
MT-PAPER	Metallized Paper
POLYESTER	Polyester
MT-POLYEST	Metallized Polyester
POLYPRO	Polypropylene
MT-POLYPRO	Metallized Polypropylene
COMPO FILM	Composite film
MT-COMPO	Metallized Composite
STYRENE	Styrene
TA-SOLID	Tantalum Oxide Solid Electrolytic
AL-SOLID	Aluminium Solid Electrolytic
ELECT	Aluminum Foil Electrolytic
NP-ELECT	Non-polarised Electrolytic
OS-SOLID	Aluminium Solid with Organic Semiconductive Electrolytic
POS-SOLID	Polymerized Organic Semiconductive
DL-ELECT	Double Layered Electrolytic
PPS-FILM	Polyphenylene Sulfide Film
MT-PPS-FILM	Metalized Polyphenylene Sulfide Film
MT-PEN-FILM	Metalized Polyethylenenaphthalate Film
CAPACITOR	Other

RESISTOR CARBON 4.7K J A 1/4W

Rated Wattage

Performance Symbols:
A: General B: Non flammable Z: Low noise
Other: Temperature coefficient

T: ±10ppm/°C	U: ±25ppm/°C	C: ±50ppm/°C
D: ±100ppm/°C	E: ±200ppm/°C	F: ±250ppm/°C
G: ±350ppm/°C	H: ±1000ppm/°C±10%	W: ±1200ppm/°C±10%
Y: ±1400ppm/°C±10%	J: ±2000ppm/°C±10%	K: ±2400ppm/°C±10%
L: ±2700ppm/°C±10%	M: ±3000ppm/°C±10%	N: ±3300ppm/°C±10%
P: ±3600ppm/°C±10%	Q: ±3900ppm/°C±10%	R: ±4200ppm/°C±10%
S: ±4300ppm/°C±10%	V: ±4500ppm/°C±10%	X: ±8000ppm/°C±10%

Tolerance Symbols:
A: ±0.05% B: ±0.1% C: ±0.25% D: ±0.5%
F: ±1% G: ±2% J: ±5% K: ±10%
M: ±20% P: +5-15% Z: 0 ohm

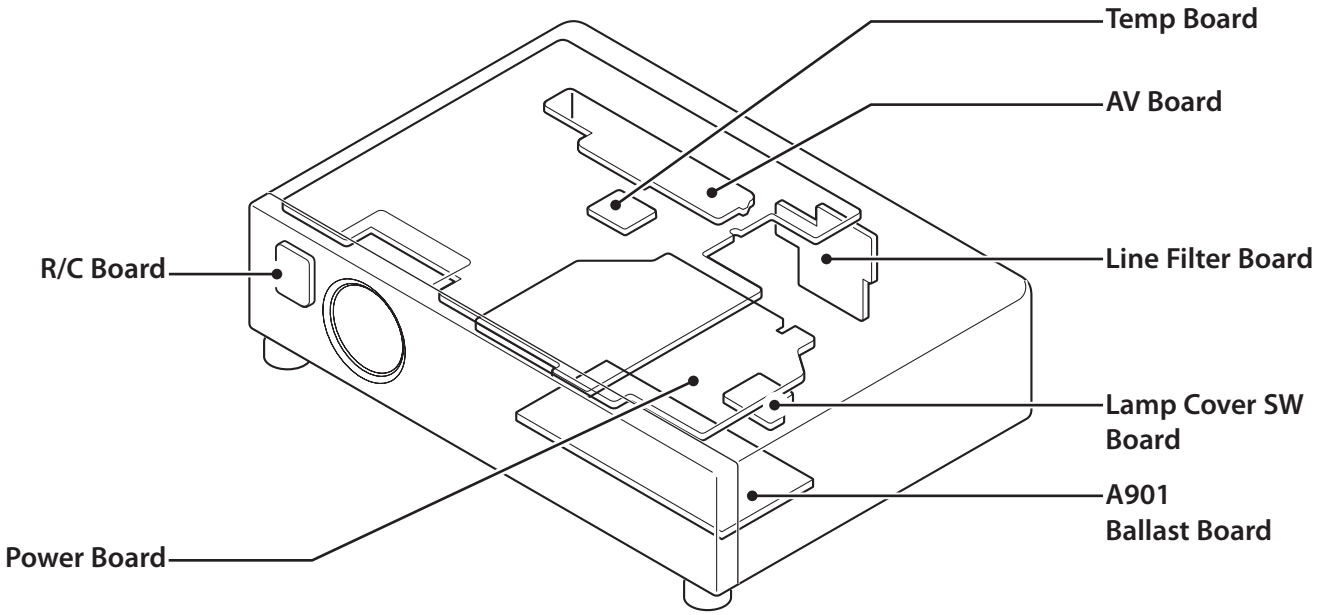
Rated value, ohms:
K: 1,000, M: 1,000,000

Material:

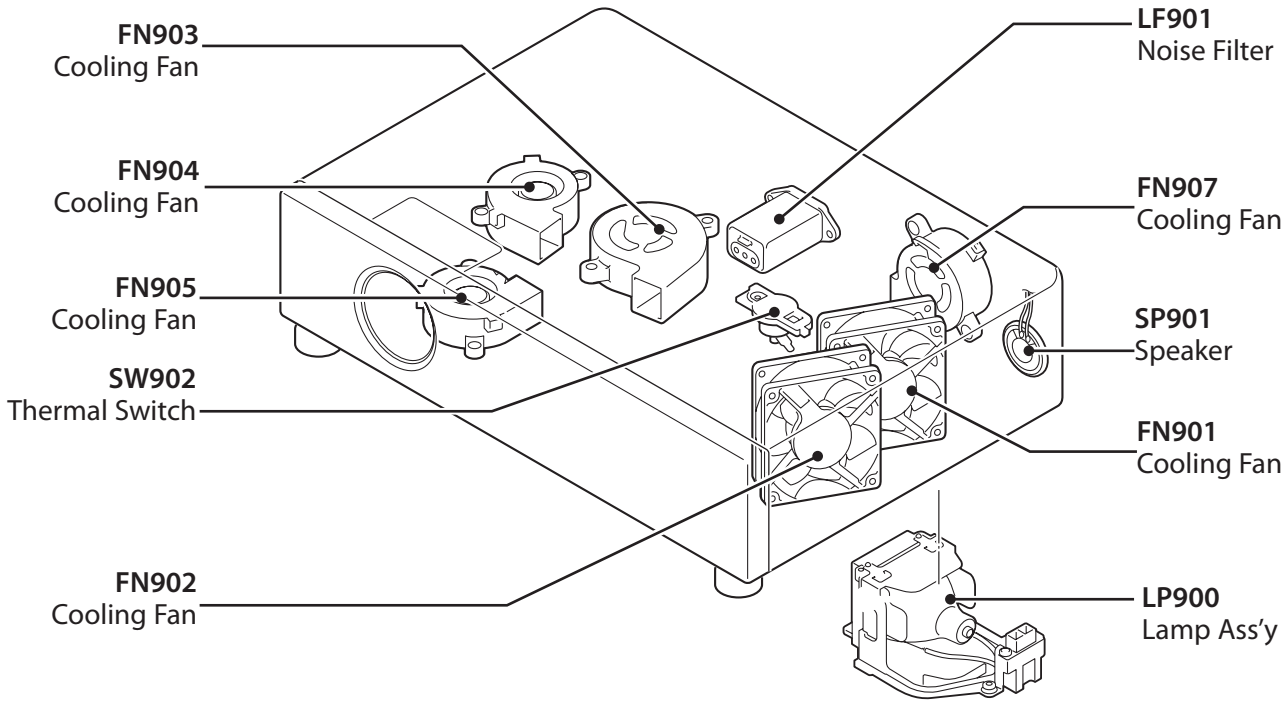
CARBON	Carbon
MT-FILM	Metal Film
OXIDE-MT	Oxide Metal Film
SOLID	Composition
MT-GLAZE	Metal Glaze
WIRE WOUND	Wire Wound
CERAMIC RES.	Ceramic
FUSIBLE RES.	Fusible
RESISTOR	Other

Electrical Parts Location

● Assemblied Boards



● Out Of Circuit Board



Electrical Parts List

Note: Parts order must contain Chassis No., Part No., and Descriptions.

Key No.	Part No.	Description
ASSEMBLED BOARDS		
⚠	**610 333 8187**	**ASSY,PWB,POWER KM6AC**
⚠	**610 333 8224**	**ASSY,PWB,LINE FILTER KM6AC**
⚠	**610 333 8101**	**ASSY,PWB,LAMP COVER SW. KM6AC**
⚠	**610 333 8132**	**ASSY,PWB,AV KL6AC**
⚠	**610 333 7920**	**ASSY,PWB,MAIN KL6AC**
⚠	**610 333 8064**	**ASSY,PWB,R/CS. KL6AC**
⚠	**610 333 7951**	**ASSY,PWB,TEMP KL6AC**
OUT OF CIRCUIT BOARD		
⚠ A901	645 093 3134	UNIT,BALLAST+CV
L901	945 023 4959	CORE,CLAMP
⚠ LF901	645 091 5765	UNIT,NOISE FILTER
⚠ LP900	610 333 9740	LAMP, POA-LMP111
⚠ FN901	645 091 3693	MOTOR,FAN DC 2.40W
⚠ FN902	645 091 3693	MOTOR,FAN DC 2.40W
⚠ FN903	945 072 0957	MOTOR,FAN DC 2.76W
⚠ FN904	945 088 7674	MOTOR,BLW DC 2.88W
⚠ FN905	945 088 7674	MOTOR,BLW DC 2.88W
⚠ FN907	945 087 8948	MOTOR,BLW DC 2.88W
SP901	952 001 6157	SPEAKER,8
	652 002 3055	SPEAKER,8
⚠ SW902	945 048 3159	SWITCH,THERMAL(100DEG)
610 333 8187 ASSY,PWB,POWER KM6AC		
TRANSISTOR		
Q601	405 218 6002	TR 2SK3934 LBS1
Q602	405 218 6002	TR 2SK3934 LBS1
Q621	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q622	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 002 0311	TR 2SA1037K T146 R
	305 002 0410	TR 2SA1037K T146 S
	305 002 6729	TR 2SA1179-M6-TB
	305 002 6927	TR 2SA1179-M7-TB
	305 163 1516	TR 2SA1179N-M6-TB
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
Q651	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 002 0311	TR 2SA1037K T146 R
	305 002 0410	TR 2SA1037K T146 S
	305 002 6729	TR 2SA1179-M6-TB
	305 002 6927	TR 2SA1179-M7-TB
	305 163 1516	TR 2SA1179N-M6-TB
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
Q652	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q681	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q682	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
INTEGRATED CIRCUIT		
IC601	309 523 1413	IC FA5502M
IC651	309 558 4202	IC STR-Z2156A
IC681	309 344 6522	IC UPC1093T-E1
CAPACITOR		
C607	303 371 8518	MT-POLYEST 1U K 400V
	303 427 2019	MT-POLYEST 1U K 400V
	303 451 4119	MT-POLYEST 1U K 450V
C608	303 222 1326	CERAMIC 1000P K 1K
C609	303 222 1326	CERAMIC 1000P K 1K
C611	303 371 8518	MT-POLYEST 1U K 400V
	303 427 2019	MT-POLYEST 1U K 400V
	303 451 4119	MT-POLYEST 1U K 450V
C612	303 433 2812	ELECT 220U M 35V
C613	303 410 7113	ELECT 100U M 25V
C614	303 410 7113	ELECT 100U M 25V
C616	404 115 2704	ELECT 330U M 420V
	404 115 6306	ELECT 330U M 420V
C618	303 427 1814	MT-POLYEST 0.1U K 450V
C619	303 298 9612	CERAMIC 0.1U K 16V
C621	303 205 2811	CERAMIC 0.047U K 25V
C622	303 157 6417	CERAMIC 330P K 50V
C623	303 215 2214	CERAMIC 0.01U K 50V
C624	303 342 3313	CERAMIC 0.1U K 25V
C625	303 402 3918	ELECT 4.7U M 50V
C626	303 342 3313	CERAMIC 0.1U K 25V
C627	303 342 3313	CERAMIC 0.1U K 25V
C628	303 157 3317	CERAMIC 68P J 50V
C629	303 157 6615	CERAMIC 470P K 50V
C631	303 298 9612	CERAMIC 0.1U K 16V
C632	303 342 3313	CERAMIC 0.1U K 25V
C633	303 342 3313	CERAMIC 0.1U K 25V
C636	303 427 1814	MT-POLYEST 0.1U K 450V
C650	303 342 3313	CERAMIC 0.1U K 25V
C651	303 268 7013	TA-SOLID 2.2U M 35V
C652	303 256 2419	CERAMIC 0.22U Z 50V
C653	303 113 3818	CERAMIC 1000P K 50V
C654	303 247 3319	CERAMIC 330P K 2K
C656	303 342 3313	CERAMIC 0.1U K 25V
C657	303 218 8817	CERAMIC 220P K 2K
C658	303 083 4310	POLYPRO 0.022U J 400V
C659	303 157 6813	CERAMIC 680P K 50V

Electrical Parts List

Key No.	Part No.	Description		
C661	303 208 1415	TA-SOLID	1U M	25V
	303 411 5712	TA-SOLID	1U M	25V
C662	303 411 1823	ELECT	220U M	35V
C663	303 342 3313	CERAMIC	0.1U K	25V
C664	303 281 5218	CERAMIC	0.22U Z	16V
C681	303 410 7509	ELECT	4700U M	25V
C682	303 342 3313	CERAMIC	0.1U K	25V
C683	303 445 3903	ELECT	3900U M	10V
C684	303 342 3313	CERAMIC	0.1U K	25V
C685	303 399 2126	ELECT	220U M	16V
C686	303 348 5826	CERAMIC	0.47U K	10V
C688	303 342 3313	CERAMIC	0.1U K	25V
C691	303 224 5015	CERAMIC	0.15U Z	16V
C692	303 323 8818	CERAMIC	2.2U Z	16V
C693	304 073 4508	CERAMIC	2200P K	250V
RESISTOR				
R602	301 242 3914	MT-GLAZE	240K JA	1/2W
R603	301 242 3914	MT-GLAZE	240K JA	1/2W
R604	301 258 8217	MT-GLAZE	680 JA	1/3W
R606	302 080 8809	MT-GLAZE	680 KA	1W
R612	301 256 2613	MT-GLAZE	2.4K JA	1/10W
R613	402 109 8206	RESISTER	0.15 JB	5W
R614	402 109 8206	RESISTER	0.15 JB	5W
R615	301 255 6513	MT-GLAZE	100 JA	1/10W
R618	301 162 3711	MT-GLAZE	4.7K JA	1/10W
R619	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R620	301 255 6513	MT-GLAZE	100 JA	1/10W
R621	301 255 8715	MT-GLAZE	22 JA	1/10W
R622	301 264 9918	MT-GLAZE	36K FA	1/10W
R624	301 162 2714	MT-GLAZE	180 JA	1/10W
R625	301 265 0914	MT-GLAZE	4.7 JA	1/10W
R626	301 152 3219	MT-GLAZE	330 JA	1/10W
R627	301 265 0914	MT-GLAZE	4.7 JA	1/10W
R628	301 255 6513	MT-GLAZE	100 JA	1/10W
R630	301 256 7519	MT-GLAZE	390 JA	1/10W
R631	301 150 5918	MT-GLAZE	10K JA	1/10W
R632	301 150 6410	MT-GLAZE	4.3K JA	1/10W
R633	301 162 3810	MT-GLAZE	470K JA	1/10W
R634	301 256 5812	MT-GLAZE	270K JA	1/10W
R635	301 255 6513	MT-GLAZE	100 JA	1/10W
R636	301 152 3110	MT-GLAZE	620 JA	1/10W
R637	301 264 2810	MT-GLAZE	1.2K FA	1/10W
R638	301 259 9015	MT-GLAZE	150K FA	1/2W
R639	301 259 9015	MT-GLAZE	150K FA	1/2W
R641	301 259 9015	MT-GLAZE	150K FA	1/2W
R642	301 259 9015	MT-GLAZE	150K FA	1/2W
R647	301 256 6611	MT-GLAZE	68K JA	1/10W
R648	301 162 2417	MT-GLAZE	1.2K JA	1/10W
R649	301 255 9514	MT-GLAZE	220K JA	1/10W
R650	301 255 8517	MT-GLAZE	9.1K JA	1/10W
R651	301 237 0010	MT-GLAZE	47K JA	1W
R652	301 237 0010	MT-GLAZE	47K JA	1W
R653	301 237 0010	MT-GLAZE	47K JA	1W
R654	301 237 0010	MT-GLAZE	47K JA	1W
R655	301 162 4015	MT-GLAZE	560 JA	1/10W
R656	301 237 0010	MT-GLAZE	47K JA	1W
R657	301 237 0010	MT-GLAZE	47K JA	1W
⚠R658	302 081 2905	FUSIBLE RES	22 JH	1/2W
R659	301 238 4512	MT-GLAZE	47 JA	1/3W
⚠R660	302 081 2905	FUSIBLE RES	22 JH	1/2W
⚠R661	324 006 1305	FUSE	250V	2.5A
R671	301 150 6212	MT-GLAZE	1K JA	1/10W
R672	301 257 7419	MT-GLAZE	120 JA	1/3W
R673	301 162 3711	MT-GLAZE	4.7K JA	1/10W
R674	301 256 2613	MT-GLAZE	2.4K JA	1/10W
R679	301 264 6511	MT-GLAZE	2.2K FA	1/10W

Key No.	Part No.	Description		
R681	301 150 5918	MT-GLAZE	10K JA	1/10W
R682	301 256 6215	MT-GLAZE	270 JA	1/10W
R683	301 150 6212	MT-GLAZE	1K JA	1/10W
R684	301 150 5918	MT-GLAZE	10K JA	1/10W
R686	301 162 3414	MT-GLAZE	39K JA	1/10W
R687	301 265 2611	MT-GLAZE	5.1K FA	1/10W
R688	301 150 5918	MT-GLAZE	10K JA	1/10W
R692	301 150 6212	MT-GLAZE	1K JA	1/10W
R693	301 150 5918	MT-GLAZE	10K JA	1/10W
R694	301 162 3711	MT-GLAZE	4.7K JA	1/10W
R699	301 238 4215	MT-GLAZE	1.5K JA	1/3W
VARIABLE RESISTOR				
VR601	945 025 7415	VR,SEMI,1K S		
TRANSFORMER				
T601	645 089 2561	INDUCTOR,700U		
⚠T651	945 085 7035	TRANS,POWER,PULSE		
COIL				
⚠L603	945 081 4878	LINE FILTER		
L611	645 089 2677	FILTER,EMI 1500PF		
L614	645 089 2677	FILTER,EMI 1500PF		
L616	645 089 2677	FILTER,EMI 1500PF		
DIODE				
D601	307 247 8827	DIODE RF101L2S		
D602	307 247 8827	DIODE RF101L2S		
D603	307 164 4015	DIODE RB160L-40-TE25		
	307 149 6327	DIODE SFPB-54V		
D604	307 225 4401	DIODE FMX-G26S		
D605	307 223 0811	ZENER DIODE 02DZ22Y(TPH3)		
	307 221 7218	ZENER DIODE UDZS-TE-1722B		
D606	307 163 0414	DIODE 1SS352-(TPH3)		
	307 149 0810	DIODE 1SS355-TE-17		
D607	307 163 0414	DIODE 1SS352-(TPH3)		
	307 149 0810	DIODE 1SS355-TE-17		
D608	307 163 0414	DIODE 1SS352-(TPH3)		
	307 149 0810	DIODE 1SS355-TE-17		
D609	307 163 0414	DIODE 1SS352-(TPH3)		
	307 149 0810	DIODE 1SS355-TE-17		
D610	307 164 4015	DIODE RB160L-40-TE25		
	307 149 6327	DIODE SFPB-54V		
D615	307 163 0414	DIODE 1SS352-(TPH3)		
	307 149 0810	DIODE 1SS355-TE-17		
D651	307 247 8827	DIODE RF101L2S		
D652	407 256 3213	DIODE CRF03(TE85L)		
D653	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)		
	307 221 7119	ZENER DIODE UDZS-TE-1712B		
D654	307 163 0414	DIODE 1SS352-(TPH3)		
	307 149 0810	DIODE 1SS355-TE-17		
D681	307 202 9801	DIODE FMB-26L		
	307 253 7504	DIODE RB085T-60		
D682	307 202 9801	DIODE FMB-26L		
	307 253 7504	DIODE RB085T-60		
D683	307 247 8827	DIODE RF101L2S		
D686	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3		
	307 209 1214	ZD UDZS-TE-176.2B		
D687	307 210 5416	DIODE RB551V-30-TE-17		
DB601	307 143 6006	DIODE RBV-1506		
	308 045 4909	DIODE RBV-1506 LF-B		
DS601	307 219 0808	THYRISTOR TF861S		
MISCELLANEOUS				
FB601	910 244 3975	CORE		
FB602	910 244 3975	CORE		
⚠PC601	307 223 7315	PC TLP421F(D4-GB-TP4)		
	307 223 8312	PC TLP421F(D4-GR-TP4)		
⚠PC602	307 223 7315	PC TLP421F(D4-GB-TP4)		

Electrical Parts List

Key No.	Part No.	Description
	307 223 8312	PC TLP421F(D4-GR-TP4)
PTH601	308 037 5600	THERMISTOR NTH11D8R0LC
PTH652	308 061 3900	TH PRF18BC471QB1RB

610 333 8224 ASSY,PWB,LINE FILTER KM6AC

CAPACITOR

⚠C601	304 079 5608	MT-POLYEST	0.47U M	275V
	304 094 2002	MT-POLYEST	0.47U K	275V
⚠C602	404 113 2904	MT-POLYEST	0.33U K	275V

RESISTOR

⚠R600	301 238 1016	MT-GLAZE	120K JA	1/2W
⚠R601	301 238 1016	MT-GLAZE	120K JA	1/2W

VARIABLE RESISTOR

⚠VA601	308 061 5607	VARISTOR ENE471D-14A-S6

COIL

⚠L601	945 050 2232	LINE FILTER

MISCELLANEOUS

⚠F601	323 025 1204	FUSE	250V	8A

610 333 8101 ASSY,PWB,LAMP COVER SW. KM6AC

SW901	945 063 5176	SWITCH,PUSH 2P-2TX3

610 333 8132 ASSY,PWB,AV KL6AC

CAPACITOR

C2031	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C2061	303 157 3614	CERAMIC	100P J	50V
C2062	303 157 3614	CERAMIC	100P J	50V

RESISTOR

R2001	301 260 4115	MT-GLAZE	75 JA	1/3W
R2003	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R2008	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R2011	301 260 4115	MT-GLAZE	75 JA	1/3W
R2012	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R2021	301 260 4115	MT-GLAZE	75 JA	1/3W
R2022	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R2031	301 255 6513	MT-GLAZE	100 JA	1/10W
R2051	301 150 5819	MT-GLAZE	100K JA	1/10W
R2052	301 150 5819	MT-GLAZE	100K JA	1/10W
R2056	301 150 5819	MT-GLAZE	100K JA	1/10W
R2057	301 150 5819	MT-GLAZE	100K JA	1/10W
R2061	301 255 6513	MT-GLAZE	100 JA	1/10W
R2062	301 255 6513	MT-GLAZE	100 JA	1/10W
R2063	301 150 5819	MT-GLAZE	100K JA	1/10W
R2064	301 150 5819	MT-GLAZE	100K JA	1/10W

COIL

L2001	945 086 7461	FILTER,EMI 100MHZ
L2011	945 086 7461	FILTER,EMI 100MHZ
L2021	945 086 7461	FILTER,EMI 100MHZ
L2031	945 086 7461	FILTER,EMI 100MHZ
L2051	945 086 7454	FILTER,EMI 50MHZ
L2052	945 086 7454	FILTER,EMI 50MHZ
L2056	945 086 7454	FILTER,EMI 50MHZ
L2057	945 086 7454	FILTER,EMI 50MHZ
L2061	945 086 7454	FILTER,EMI 50MHZ
L2062	945 086 7454	FILTER,EMI 50MHZ

DIODE

D2031	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
	307 221 7119	ZENER DIODE UDZS-TE-1712B

MISCELLANEOUS

K20A	945 045 8478	SOCKET,DIN 4P
	645 089 9041	SOCKET,DIN 4P
K20B	945 068 3740	JACK,RCA-3
K20C	945 006 4792	JACK,PHONE D3.6
	952 001 0971	JACK,PHONE D3.5
K20D	945 006 4792	JACK,PHONE D3.6
	952 001 0971	JACK,PHONE D3.5
SC2001	945 076 3503	SURGE-ABSORBER
SC2011	945 076 3503	SURGE-ABSORBER
SC2021	945 076 3503	SURGE-ABSORBER
SC2031	945 076 3503	SURGE-ABSORBER
SC2051	945 076 3503	SURGE-ABSORBER
SC2052	945 076 3503	SURGE-ABSORBER
SC2056	945 076 3503	SURGE-ABSORBER
SC2057	945 076 3503	SURGE-ABSORBER
SC2058	945 076 3503	SURGE-ABSORBER
SC2059	945 076 3503	SURGE-ABSORBER
SC8751	945 076 3503	SURGE-ABSORBER
SC8752	945 076 3503	SURGE-ABSORBER
SC8753	945 076 3503	SURGE-ABSORBER
SC8754	945 076 3503	SURGE-ABSORBER

610 333 7920 ASSY,PWB,MAIN KL6AC

TRANSISTOR

Q1031	305 217 4913	TR RN1111 TE85L
Q1032	305 217 4913	TR RN1111 TE85L
Q1033	305 217 4913	TR RN1111 TE85L
Q1034	305 217 4913	TR RN1111 TE85L
Q1036	305 217 4913	TR RN1111 TE85L
Q1037	305 217 4913	TR RN1111 TE85L
Q1061	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2001	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2011	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2021	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S

Electrical Parts List

Key No.	Part No.	Description
Q2071	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2501	305 002 8327	TR 2SA1203-Y-TE12L
Q2502	305 217 5019	TR RN1117 TE85L
Q331	305 191 5814	TR 3LN01C-TB-E
Q3581	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q3582	305 002 8327	TR 2SA1203-Y-TE12L
Q3601	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q3602	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q3801	305 191 5814	TR 3LN01C-TB-E
Q5031	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5032	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5033	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5034	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5036	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5061	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5062	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5063	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5064	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5081	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5201	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5202	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5301	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5302	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 002 0311	TR 2SA1037K T146 R
	305 002 0410	TR 2SA1037K T146 S
	305 002 6729	TR 2SA1179-M6-TB
	305 002 6927	TR 2SA1179-M7-TB
	305 163 1516	TR 2SA1179N-M6-TB
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
Q5303	305 134 5928	TR 2SA1037AK-T146-R

Electrical Parts List

Key No.	Part No.	Description
	305 147 2218	TR 2SA1037AK-S-T146
	305 002 0311	TR 2SA1037K T146 R
	305 002 0410	TR 2SA1037K T146 S
	305 002 6729	TR 2SA1179-M6-TB
	305 002 6927	TR 2SA1179-M7-TB
	305 163 1516	TR 2SA1179N-M6-TB
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
Q5304	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5331	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5332	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 002 0311	TR 2SA1037K T146 R
	305 002 0410	TR 2SA1037K T146 S
	305 002 6729	TR 2SA1179-M6-TB
	305 002 6927	TR 2SA1179-M7-TB
	305 163 1516	TR 2SA1179N-M6-TB
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
Q5333	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 002 0311	TR 2SA1037K T146 R
	305 002 0410	TR 2SA1037K T146 S
	305 002 6729	TR 2SA1179-M6-TB
	305 002 6927	TR 2SA1179-M7-TB
	305 163 1516	TR 2SA1179N-M6-TB
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
Q5334	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5336	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 002 0311	TR 2SA1037K T146 R
	305 002 0410	TR 2SA1037K T146 S
	305 002 6729	TR 2SA1179-M6-TB
	305 002 6927	TR 2SA1179-M7-TB
	305 163 1516	TR 2SA1179N-M6-TB
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
Q5821	306 017 8405	TR RTQ025P02-TR
Q5841	306 017 8405	TR RTQ025P02-TR
Q5861	306 017 8405	TR RTQ025P02-TR
Q684	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q6841	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q6842	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q6843	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q6844	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q6846	305 002 8327	TR 2SA1203-Y-TE12L
Q6847	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q7801	305 217 5019	TR RN1117 TE85L
Q7802	305 217 5019	TR RN1117 TE85L
Q7811	305 217 5019	TR RN1117 TE85L
Q7812	305 217 8515	TR RSQ025P03-TR
Q7813	305 139 7719	TR IMZ1A-T108
Q7841	305 217 5019	TR RN1117 TE85L
Q7842	305 217 8515	TR RSQ025P03-TR
Q7844	305 139 7719	TR IMZ1A-T108
Q7861	305 217 5019	TR RN1117 TE85L
Q7862	305 217 8515	TR RSQ025P03-TR
Q7864	305 139 7719	TR IMZ1A-T108
Q8111	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S

INTEGRATED CIRCUIT

IC1041	310 517 6809	IC TC74LVX4053FT
IC1051	309 462 0327	IC 24LC21AT/SN
IC1301	310 616 3402	IC PST413A300NR
IC1351	310 479 4004	IC TC7WBD125AFK
IC1371	310 479 4004	IC TC7WBD125AFK
IC1391	310 538 4907	IC 24LC64T-I/SNG
IC301	309 670 8419	IC PW190-10L
IC3501	309 431 4424	IC M62334FP-DF5Q
IC3801	309 652 0714	IC HIN202EIBNZ-T
IC4001	409 677 4619	IC EL5308IUZ
IC4011	310 348 7501	IC TC7WT241FU(TE12L)
IC4891	309 404 7213	IC TC7SET00FU-(TE85L)

Electrical Parts List

Key No.	Part No.	Description
IC491	310 576 6406	IC PQ012FZ01ZPH
IC5001	309 564 1519	IC NJW1141M
IC5031	309 594 1916	IC LM4889MM
IC5081	309 398 1914	IC L88MS05TL-TL
IC5201	309 530 7217	IC AN5870SB-E1V
IC5301	309 484 2016	IC BA7078AF-E2
IC5302	309 439 8919	IC TC7WH125FU
IC5304	309 461 7317	IC AD8057ARTZ-REEL7
IC5601	309 416 6518	IC BA05FP-E2
	309 591 8611	IC BA50BC0FP
IC5631	309 555 6516	IC SI-3033ZD-TL
IC5641	309 563 9615	IC SI-3012KS-TL
IC5642	409 684 3414	IC BA90BC0FP
IC5801	309 567 3213	IC FA7711V-TE1
IC7811	309 531 6229	IC FA7701V-TE1
IC7841	309 531 6229	IC FA7701V-TE1
IC7861	309 531 6229	IC FA7701V-TE1
IC801	410 636 2307	IC S29GL032A90TFIR30-0801
IC8101	309 462 0327	IC 24LC21AT/SN
IC8131	310 517 6809	IC TC74LVX4053FT
IC8811	309 481 8615	IC LM76CHMX-5
IC8821	309 481 8615	IC LM76CHMX-5
IC891	310 337 0605	IC HD74LVC14T
IC9882	309 464 1411	IC TC74ACT14FT

CAPACITOR

C1038	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1039	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1041	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1051	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1091	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C1301	303 392 1215	ELECT	47U M	6.3V
	303 387 5310	ELECT	47U M	6.3V
C1302	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1303	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C1304	303 453 8511	CERAMIC	1000P K	50V
	303 454 1214	CERAMIC	1000P K	50V
	303 276 1317	CERAMIC	1000P K	50V
C1351	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1371	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1391	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1511	303 276 1911	CERAMIC	22P J	50V
C1512	303 276 1911	CERAMIC	22P J	50V
C1513	303 276 1911	CERAMIC	22P J	50V
C1514	303 276 1911	CERAMIC	22P J	50V
C1516	303 276 1911	CERAMIC	22P J	50V
C1517	303 276 1911	CERAMIC	22P J	50V
C1518	303 276 1911	CERAMIC	22P J	50V
C1519	303 276 1911	CERAMIC	22P J	50V
C1521	303 276 1911	CERAMIC	22P J	50V

Key No.	Part No.	Description		
C1522	303 276 1911	CERAMIC	22P J	50V
C1523	303 276 1911	CERAMIC	22P J	50V
C1524	303 276 1911	CERAMIC	22P J	50V
C1526	303 276 1911	CERAMIC	22P J	50V
C1527	303 276 1911	CERAMIC	22P J	50V
C1528	303 276 1911	CERAMIC	22P J	50V
C1541	303 276 1911	CERAMIC	22P J	50V
C1542	303 276 1911	CERAMIC	22P J	50V
C1543	303 276 1911	CERAMIC	22P J	50V
C1544	303 276 1911	CERAMIC	22P J	50V
C1546	303 276 1911	CERAMIC	22P J	50V
C1547	303 276 1911	CERAMIC	22P J	50V
C1548	303 276 1911	CERAMIC	22P J	50V
C1549	303 276 1911	CERAMIC	22P J	50V
C1551	303 276 1911	CERAMIC	22P J	50V
C1552	303 276 1911	CERAMIC	22P J	50V
C1553	303 276 1911	CERAMIC	22P J	50V
C1554	303 276 1911	CERAMIC	22P J	50V
C1556	303 276 1911	CERAMIC	22P J	50V
C1557	303 276 1911	CERAMIC	22P J	50V
C1558	303 276 1911	CERAMIC	22P J	50V
C1571	303 276 1911	CERAMIC	22P J	50V
C1572	303 276 1911	CERAMIC	22P J	50V
C1573	303 276 1911	CERAMIC	22P J	50V
C1574	303 276 1911	CERAMIC	22P J	50V
C1576	303 276 1911	CERAMIC	22P J	50V
C1577	303 276 1911	CERAMIC	22P J	50V
C1578	303 276 1911	CERAMIC	22P J	50V
C1579	303 276 1911	CERAMIC	22P J	50V
C1581	303 276 1911	CERAMIC	22P J	50V
C1582	303 276 1911	CERAMIC	22P J	50V
C1583	303 276 1911	CERAMIC	22P J	50V
C1584	303 276 1911	CERAMIC	22P J	50V
C1586	303 276 1911	CERAMIC	22P J	50V
C1587	303 276 1911	CERAMIC	22P J	50V
C1588	303 276 1911	CERAMIC	22P J	50V
C2001	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C2002	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2003	403 457 2512	CERAMIC	0.47U K	10V
	303 376 6311	CERAMIC	0.47U K	10V
C2011	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2012	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2013	403 457 2512	CERAMIC	0.47U K	10V
	303 376 6311	CERAMIC	0.47U K	10V
C2021	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C2022	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2023	403 457 2512	CERAMIC	0.47U K	10V
	303 376 6311	CERAMIC	0.47U K	10V
C2071	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2072	303 372 7510	CERAMIC	2.2U K	6.3V
C2073	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2504	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V

Electrical Parts List

Key No.	Part No.	Description		
	303 409 3426	CERAMIC	0.1U K	16V
C2505	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C2506	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C2507	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C2508	303 135 0710	CERAMIC	1U K	25V
C2509	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2511	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2512	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C2513	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C2514	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C2534	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2535	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C2536	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C2537	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C2538	303 135 0710	CERAMIC	1U K	25V
C2539	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2541	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2542	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C2543	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C2544	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C2564	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2565	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C2566	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C2567	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C2568	303 135 0710	CERAMIC	1U K	25V
C2569	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2571	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2572	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C2573	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C2574	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C2891	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2892	303 453 7217	CERAMIC	47P J	50V
	303 454 1610	CERAMIC	47P J	50V
	303 305 8812	CERAMIC	47P J	50V
C301	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C302	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C303	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C304	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C306	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C307	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C308	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C309	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C311	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C312	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C313	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C314	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C316	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C317	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C318	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C319	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C321	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C322	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C323	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C324	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C326	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C327	303 453 8917	CERAMIC	0.1U K	16V

Electrical Parts List

Key No.	Part No.	Description		
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C328	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C329	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C331	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C332	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C333	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C334	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C336	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C337	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C338	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C339	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C341	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C342	303 276 1911	CERAMIC	22P J	50V
C343	303 276 1911	CERAMIC	22P J	50V
C347	403 457 2512	CERAMIC	0.47U K	10V
	303 376 6311	CERAMIC	0.47U K	10V
C3500	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C3501	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3502	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C3503	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C3504	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3506	303 391 5115	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C3508	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C3509	303 135 0710	CERAMIC	1U K	25V
C351	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3511	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3512	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3513	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3514	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C352	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C353	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3530	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C3531	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3532	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C3533	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C3534	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3536	303 391 5115	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C3538	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C3539	303 135 0710	CERAMIC	1U K	25V
C354	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3555	303 341 3918	POS-SOLID	100U M	6.3V
C356	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3560	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C3561	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3562	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C3563	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C3564	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3566	303 391 5115	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C3568	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C3569	303 135 0710	CERAMIC	1U K	25V
C357	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C358	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3581	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C361	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C362	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C363	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V

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Key No.	Part No.	Description		
	303 409 3426	CERAMIC	0.1U K	16V
C364	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C365	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C366	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C367	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C368	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C369	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C371	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C372	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C373	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C374	303 276 3113	CERAMIC	33P J	50V
C375	303 276 3113	CERAMIC	33P J	50V
C3801	303 372 7510	CERAMIC	2.2U K	6.3V
C3802	303 372 7510	CERAMIC	2.2U K	6.3V
C3803	303 372 7510	CERAMIC	2.2U K	6.3V
C3804	303 372 7510	CERAMIC	2.2U K	6.3V
C3806	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C381	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C382	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C383	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C384	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C386	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C387	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C388	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C391	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C392	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4006	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4007	303 372 7510	CERAMIC	2.2U K	6.3V
C4008	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4009	303 372 7510	CERAMIC	2.2U K	6.3V
C401	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4011	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C402	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C403	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C404	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C406	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C407	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C411	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C412	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C413	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C414	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C416	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C417	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C421	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C422	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C423	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C424	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C426	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C427	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C431	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C432	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C433	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C434	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C436	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V

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Key No.	Part No.	Description		
	303 409 3426	CERAMIC	0.1U K	16V
C437	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C438	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C439	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C471	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C478	303 392 1215	ELECT	47U M	6.3V
	303 387 5310	ELECT	47U M	6.3V
C479	303 392 1215	ELECT	47U M	6.3V
	303 387 5310	ELECT	47U M	6.3V
C4808	403 457 3311	CERAMIC	47U M	6.3V
	303 380 0114	CERAMIC	47U M	6.3V
C4891	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C491	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C492	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C493	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C5001	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5002	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C5003	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C5004	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5006	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5007	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C5008	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C5009	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C501	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5011	303 071 8115	CERAMIC	2200P K	50V
C5012	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5013	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5014	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5016	303 071 8115	CERAMIC	2200P K	50V
C5017	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5018	303 279 4315	CERAMIC	0.33U K	16V
C5019	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C502	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C5021	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5022	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5023	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5024	403 455 9018	CERAMIC	10U K	16V
	303 379 6714	CERAMIC	10U K	16V
C503	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C5031	303 355 9913	CERAMIC	2.2U K	10V
C5032	303 314 5918	CERAMIC	0.47U K	16V
C5033	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5037	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5038	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C5039	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C504	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C5041	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C505	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C506	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C5061	303 391 5511	ELECT	10U M	16V
	303 175 7212	ELECT	10U M	16V
C5069	303 391 5511	ELECT	10U M	16V
	303 175 7212	ELECT	10U M	16V
C507	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C508	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C5081	403 455 9018	CERAMIC	10U K	16V
	303 379 6714	CERAMIC	10U K	16V
C5083	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C5084	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5086	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C5087	303 394 9318	ELECT	220U M	6.3V
	303 387 5112	ELECT	220U M	6.3V
C5088	303 394 9318	ELECT	220U M	6.3V
	303 387 5112	ELECT	220U M	6.3V
C509	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C511	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C512	303 453 8511	CERAMIC	1000P K	50V
	303 454 1214	CERAMIC	1000P K	50V
	303 276 1317	CERAMIC	1000P K	50V
C513	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C514	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C515	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C516	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C517	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V

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Key No.	Part No.	Description		
	303 409 3426	CERAMIC	0.1U K	16V
C518	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C519	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5200	403 455 9018	CERAMIC	10U K	16V
	303 379 6714	CERAMIC	10U K	16V
C5201	303 372 7510	CERAMIC	2.2U K	6.3V
C5202	303 372 7510	CERAMIC	2.2U K	6.3V
C5203	303 372 7510	CERAMIC	2.2U K	6.3V
C5204	303 372 7510	CERAMIC	2.2U K	6.3V
C5206	303 372 7510	CERAMIC	2.2U K	6.3V
C5207	303 372 7510	CERAMIC	2.2U K	6.3V
C5208	303 381 5613	ELECT	220U M	16V
	303 423 8916	ELECT	220U M	16V
C5209	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5211	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5212	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5213	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5214	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5216	303 381 5316	ELECT	100U M	16V
	303 369 3211	ELECT	100U M	16V
C5217	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5218	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5219	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5221	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C5222	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5227	303 381 9918	ELECT	470U M	16V
C5228	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C5229	303 381 9918	ELECT	470U M	16V
C5231	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C5232	303 381 9918	ELECT	470U M	16V
C5233	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C5241	403 457 2512	CERAMIC	0.47U K	10V
	303 376 6311	CERAMIC	0.47U K	10V
C5243	403 457 2512	CERAMIC	0.47U K	10V
	303 376 6311	CERAMIC	0.47U K	10V
C5244	303 355 9913	CERAMIC	2.2U K	10V
C526	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C527	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C528	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C529	303 135 0710	CERAMIC	1U K	25V
C5301	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5302	303 070 0912	CERAMIC	0.1U K	50V
C5303	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5306	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5307	303 372 7510	CERAMIC	2.2U K	6.3V
C5308	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5309	403 457 2512	CERAMIC	0.47U K	10V
	303 376 6311	CERAMIC	0.47U K	10V
C531	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5311	403 457 2512	CERAMIC	0.47U K	10V
	303 376 6311	CERAMIC	0.47U K	10V
C5312	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5313	303 372 7510	CERAMIC	2.2U K	6.3V
C5314	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5316	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C5317	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5318	303 453 6319	CERAMIC	100P J	50V
	303 454 0910	CERAMIC	100P J	50V
	303 294 6110	CERAMIC	100P J	50V
C532	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C5321	303 355 9913	CERAMIC	2.2U K	10V
C5322	303 372 7510	CERAMIC	2.2U K	6.3V
C5323	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5324	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5325	303 372 7510	CERAMIC	2.2U K	6.3V
C5326	303 314 5314	CERAMIC	5P C	50V
C533	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C5332	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5333	303 314 5918	CERAMIC	0.47U K	16V
C5334	303 453 6814	CERAMIC	68P J	50V
	303 454 0019	CERAMIC	68P J	50V
	303 320 0419	CERAMIC	68P J	50V
C5336	303 309 2519	CERAMIC	27P J	50V
C5337	303 453 6319	CERAMIC	100P J	50V
	303 454 0910	CERAMIC	100P J	50V
	303 294 6110	CERAMIC	100P J	50V
C534	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C5341	303 299 1615	CERAMIC	1U K	16V
	403 457 2611	CERAMIC	1U M	16V
C535	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C536	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C537	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V

Electrical Parts List

Key No.	Part No.	Description		
C538	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C539	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C541	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C542	303 453 8511	CERAMIC	1000P K	50V
	303 454 1214	CERAMIC	1000P K	50V
	303 276 1317	CERAMIC	1000P K	50V
C543	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C544	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C545	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C546	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C547	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C548	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C549	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C556	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C557	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C558	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C559	303 135 0710	CERAMIC	1U K	25V
C5601	303 397 5713	ELECT	100U M	10V
	303 387 5617	ELECT	100U M	10V
C5602	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5603	303 394 9318	ELECT	220U M	6.3V
	303 387 5112	ELECT	220U M	6.3V
C5604	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5605	303 397 4211	POS-SOLID	47U M	20V
C5606	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C5607	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C5608	303 394 9318	ELECT	220U M	6.3V
	303 387 5112	ELECT	220U M	6.3V
C5609	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C561	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5611	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C5612	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C5613	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C5616	303 417 9912	CERAMIC	4.7U K	25V
C5617	303 417 9912	CERAMIC	4.7U K	25V
C5618	303 417 9912	CERAMIC	4.7U K	25V
C5619	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C562	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C5624	303 454 1016	CERAMIC	8200P K	50V
	303 306 6510	CERAMIC	8200P K	50V
C563	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C5632	303 378 9112	POS-SOLID	47U M	16V
C5633	303 347 5510	POS-SOLID	470U M	4V
C5634	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C5635	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C564	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C5640	303 391 5115	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C5641	303 374 8416	OS-SOLID	39U M	16V
C5642	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5643	303 391 5115	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C5646	303 398 4715	ELECT	22U M	25V
	303 184 8316	ELECT	22U M	25V
C5647	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C565	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C566	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C567	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C568	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C569	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C571	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C572	303 453 8511	CERAMIC	1000P K	50V
	303 454 1214	CERAMIC	1000P K	50V
	303 276 1317	CERAMIC	1000P K	50V
C573	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C574	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C575	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C576	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C577	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C578	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C579	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5801	303 325 6317	CERAMIC	0.22U K	10V
C5802	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5803	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V

Electrical Parts List

Key No.	Part No.	Description		
C5804	303 454 1917	CERAMIC	4700P K	50V
	303 379 7315	CERAMIC	4700P K	50V
C5805	403 455 9018	CERAMIC	10U K	16V
	303 379 6714	CERAMIC	10U K	16V
C5806	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5807	303 454 1917	CERAMIC	4700P K	50V
	303 379 7315	CERAMIC	4700P K	50V
C5808	303 454 1917	CERAMIC	4700P K	50V
	303 379 7315	CERAMIC	4700P K	50V
C5809	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5811	303 337 9511	CERAMIC	0.15U K	10V
C5821	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5822	303 347 5510	POS-SOLID	470U M	4V
C5823	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5841	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5842	303 347 5510	POS-SOLID	470U M	4V
C5843	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5844	303 454 1016	CERAMIC	8200P K	50V
	303 306 6510	CERAMIC	8200P K	50V
C586	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C5861	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5862	303 347 5510	POS-SOLID	470U M	4V
C5863	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5864	303 454 1016	CERAMIC	8200P K	50V
	303 306 6510	CERAMIC	8200P K	50V
C587	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C588	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C589	303 135 0710	CERAMIC	1U K	25V
C6801	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C6802	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C6803	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C687	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C7811	303 314 6212	CERAMIC	2.2U K	16V
C7813	303 381 5316	ELECT	100U M	16V
	303 369 3211	ELECT	100U M	16V
C7814	303 381 5316	ELECT	100U M	16V
	303 369 3211	ELECT	100U M	16V
C7817	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7818	303 454 1917	CERAMIC	4700P K	50V
	303 379 7315	CERAMIC	4700P K	50V
C7841	303 314 6212	CERAMIC	2.2U K	16V
C7843	303 381 5316	ELECT	100U M	16V
	303 369 3211	ELECT	100U M	16V
C7844	303 381 5316	ELECT	100U M	16V
	303 369 3211	ELECT	100U M	16V
C7847	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7848	303 454 1917	CERAMIC	4700P K	50V
	303 379 7315	CERAMIC	4700P K	50V
C7861	303 314 6212	CERAMIC	2.2U K	16V
C7863	303 381 5316	ELECT	100U M	16V
	303 369 3211	ELECT	100U M	16V
C7864	303 381 5316	ELECT	100U M	16V
	303 369 3211	ELECT	100U M	16V
C7867	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7868	303 454 1917	CERAMIC	4700P K	50V
	303 379 7315	CERAMIC	4700P K	50V
C7870	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C801	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8101	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8106	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8161	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C8811	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C8812	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C8813	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8821	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C8822	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C8823	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C891	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C9882	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
RESISTOR				
R1020	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1021	301 260 4115	MT-GLAZE	75 JA	1/3W
R1022	301 260 4115	MT-GLAZE	75 JA	1/3W
R1023	301 260 4115	MT-GLAZE	75 JA	1/3W
R1024	301 225 1418	MT-GLAZE	47K JA	1/16W
R1026	301 225 1418	MT-GLAZE	47K JA	1/16W
R1030	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1031	301 260 4115	MT-GLAZE	75 JA	1/3W
R1032	301 260 4115	MT-GLAZE	75 JA	1/3W
R1033	301 260 4115	MT-GLAZE	75 JA	1/3W
R1034	301 225 1418	MT-GLAZE	47K JA	1/16W

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Key No.	Part No.	Description			Key No.	Part No.	Description		
R1036	301 225 1418	MT-GLAZE	47K JA	1/16W	R2027	301 224 8814	MT-GLAZE	100 JA	1/16W
R1037	301 224 9316	MT-GLAZE	1K JA	1/16W	R2028	301 225 0015	MT-GLAZE	270 JA	1/16W
R1038	301 224 9514	MT-GLAZE	2.2K JA	1/16W	R2032	301 224 9019	MT-GLAZE	10K JA	1/16W
R1039	301 224 9316	MT-GLAZE	1K JA	1/16W	R2033	301 224 9217	MT-GLAZE	15K JA	1/16W
R1040	301 224 9514	MT-GLAZE	2.2K JA	1/16W	R2036	301 225 8110	MT-GLAZE	10 JA	1/16W
R1041	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R2037	301 225 8110	MT-GLAZE	10 JA	1/16W
R1042	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R2038	301 225 8110	MT-GLAZE	10 JA	1/16W
R1043	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R2039	301 225 8110	MT-GLAZE	10 JA	1/16W
R1044	301 224 9019	MT-GLAZE	10K JA	1/16W	R2041	301 225 8110	MT-GLAZE	10 JA	1/16W
R1046	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R2042	301 225 8110	MT-GLAZE	10 JA	1/16W
R1047	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R2043	301 225 8110	MT-GLAZE	10 JA	1/16W
R1051	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R2044	301 225 8110	MT-GLAZE	10 JA	1/16W
R1052	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R2046	301 225 8110	MT-GLAZE	10 JA	1/16W
R1061	301 224 9019	MT-GLAZE	10K JA	1/16W	R2047	301 225 8110	MT-GLAZE	10 JA	1/16W
R1062	301 224 9316	MT-GLAZE	1K JA	1/16W	R2071	301 224 8913	MT-GLAZE	100K JA	1/16W
R1301	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R2072	301 224 8913	MT-GLAZE	100K JA	1/16W
R1306	301 224 9316	MT-GLAZE	1K JA	1/16W	R2073	301 224 9415	MT-GLAZE	1M JA	1/16W
R1351	301 224 9019	MT-GLAZE	10K JA	1/16W	R2074	301 224 9910	MT-GLAZE	22K JA	1/16W
R1352	301 224 9019	MT-GLAZE	10K JA	1/16W	R2076	301 224 8814	MT-GLAZE	100 JA	1/16W
R1353	301 225 0213	MT-GLAZE	3.3K JA	1/16W	R2501	301 224 8814	MT-GLAZE	100 JA	1/16W
R1354	301 225 0213	MT-GLAZE	3.3K JA	1/16W	R2502	301 224 8814	MT-GLAZE	100 JA	1/16W
R1376	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R2503	301 224 8814	MT-GLAZE	100 JA	1/16W
R1378	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R2504	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R1391	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R2505	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1392	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R2514	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R1393	301 225 0213	MT-GLAZE	3.3K JA	1/16W	R2516	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1394	301 225 0213	MT-GLAZE	3.3K JA	1/16W	R2517	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1906	303 376 6212	CERAMIC	0.22U K	10V	R2521	301 224 8913	MT-GLAZE	100K JA	1/16W
R1907	301 224 9316	MT-GLAZE	1K JA	1/16W	R2531	301 224 8814	MT-GLAZE	100 JA	1/16W
R1908	301 224 9316	MT-GLAZE	1K JA	1/16W	R2532	301 224 8814	MT-GLAZE	100 JA	1/16W
R1909	301 224 9316	MT-GLAZE	1K JA	1/16W	R2533	301 224 8814	MT-GLAZE	100 JA	1/16W
R1911	303 376 6212	CERAMIC	0.22U K	10V	R2534	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R1913	303 376 6212	CERAMIC	0.22U K	10V	R2535	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1914	303 376 6212	CERAMIC	0.22U K	10V	R2544	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R1917	303 376 6212	CERAMIC	0.22U K	10V	R2546	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1918	303 376 6212	CERAMIC	0.22U K	10V	R2547	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1919	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R2551	301 224 8913	MT-GLAZE	100K JA	1/16W
R1920	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R2561	301 224 8814	MT-GLAZE	100 JA	1/16W
R1922	303 453 8917	CERAMIC	0.1U K	16V	R2562	301 224 8814	MT-GLAZE	100 JA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R2563	301 224 8814	MT-GLAZE	100 JA	1/16W
	303 409 3426	CERAMIC	0.1U K	16V	R2564	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R1924	303 376 6212	CERAMIC	0.22U K	10V	R2565	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1925	303 376 6212	CERAMIC	0.22U K	10V	R2574	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R1926	303 376 6212	CERAMIC	0.22U K	10V	R2576	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1930	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R2577	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1931	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R2581	301 224 8913	MT-GLAZE	100K JA	1/16W
R1932	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R2591	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1939	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R2592	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1940	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R2890	301 224 9712	MT-GLAZE	22 JA	1/16W
R1943	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R2891	301 224 9712	MT-GLAZE	22 JA	1/16W
R1944	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R2892	301 224 8814	MT-GLAZE	100 JA	1/16W
R2000	301 150 6014	MT-GLAZE	0.000 ZA	1/10W	R301	301 224 9316	MT-GLAZE	1K JA	1/16W
R2002	301 225 1418	MT-GLAZE	47K JA	1/16W	R302	301 224 9316	MT-GLAZE	1K JA	1/16W
R2003	301 225 0718	MT-GLAZE	56K JA	1/16W	R303	301 224 9316	MT-GLAZE	1K JA	1/16W
R2004	301 225 1319	MT-GLAZE	470 JA	1/16W	R304	301 224 9316	MT-GLAZE	1K JA	1/16W
R2006	301 224 9316	MT-GLAZE	1K JA	1/16W	R306	301 224 9712	MT-GLAZE	22 JA	1/16W
R2007	301 224 8814	MT-GLAZE	100 JA	1/16W	R307	301 224 9712	MT-GLAZE	22 JA	1/16W
R2008	301 225 0015	MT-GLAZE	270 JA	1/16W	R308	301 339 9515	MT-GLAZE	12.1K FA	1/10W
R2012	301 225 1418	MT-GLAZE	47K JA	1/16W	R311	301 224 9019	MT-GLAZE	10K JA	1/16W
R2013	301 225 0718	MT-GLAZE	56K JA	1/16W	R312	301 224 9019	MT-GLAZE	10K JA	1/16W
R2014	301 225 1319	MT-GLAZE	470 JA	1/16W	R314	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2016	301 224 9316	MT-GLAZE	1K JA	1/16W	R316	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2017	301 224 8814	MT-GLAZE	100 JA	1/16W	R321	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R2022	301 225 1418	MT-GLAZE	47K JA	1/16W	R322	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R2023	301 225 0718	MT-GLAZE	56K JA	1/16W	R324	301 256 6017	MT-GLAZE	27K JA	1/10W
R2024	301 225 1319	MT-GLAZE	470 JA	1/16W	R325	301 150 5918	MT-GLAZE	10K JA	1/10W
R2026	301 224 9316	MT-GLAZE	1K JA	1/16W	R326	301 256 6611	MT-GLAZE	68K JA	1/10W

Electrical Parts List

Key No.	Part No.	Description		
R327	301 150 5918	MT-GLAZE	10K JA	1/10W
R328	301 256 6611	MT-GLAZE	68K JA	1/10W
R329	301 150 5918	MT-GLAZE	10K JA	1/10W
R333	301 224 9019	MT-GLAZE	10K JA	1/16W
R334	301 225 8110	MT-GLAZE	10 JA	1/16W
R337	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R339	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R342	301 224 9019	MT-GLAZE	10K JA	1/16W
R343	301 225 8110	MT-GLAZE	10 JA	1/16W
R348	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R3501	301 224 8913	MT-GLAZE	100K JA	1/16W
R3502	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3503	301 225 1418	MT-GLAZE	47K JA	1/16W
R3504	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3509	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R3511	301 224 8814	MT-GLAZE	100 JA	1/16W
R3512	301 224 8814	MT-GLAZE	100 JA	1/16W
R3513	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3514	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3515	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R352	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3531	301 224 8913	MT-GLAZE	100K JA	1/16W
R3532	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3533	301 225 1418	MT-GLAZE	47K JA	1/16W
R3534	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3539	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R3561	301 224 8913	MT-GLAZE	100K JA	1/16W
R3562	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3563	301 225 1418	MT-GLAZE	47K JA	1/16W
R3564	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3569	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R3581	301 224 9316	MT-GLAZE	1K JA	1/16W
R3582	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R3583	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R3584	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R3601	301 224 9316	MT-GLAZE	1K JA	1/16W
R3602	301 225 0619	MT-GLAZE	5.6K JA	1/16W
R3603	301 224 9316	MT-GLAZE	1K JA	1/16W
R3604	301 225 0619	MT-GLAZE	5.6K JA	1/16W
R361	301 339 9614	MT-GLAZE	23.2K FA	1/10W
R362	301 302 3410	MT-GLAZE	13K JA	1/16W
R3621	301 224 9019	MT-GLAZE	10K JA	1/16W
R3622	301 224 9019	MT-GLAZE	10K JA	1/16W
R3623	301 224 9019	MT-GLAZE	10K JA	1/16W
R3626	301 224 9019	MT-GLAZE	10K JA	1/16W
R3627	301 224 9019	MT-GLAZE	10K JA	1/16W
R3628	301 224 9019	MT-GLAZE	10K JA	1/16W
R371	301 224 9415	MT-GLAZE	1M JA	1/16W
R3801	301 224 9019	MT-GLAZE	10K JA	1/16W
R3802	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R381	301 263 7420	MT-GLAZE	75 JA	1/16W
R386	301 263 7420	MT-GLAZE	75 JA	1/16W
R391	301 224 9316	MT-GLAZE	1K JA	1/16W
R392	301 224 9019	MT-GLAZE	10K JA	1/16W
R4001	301 265 4912	MT-GLAZE	75 FA	1/10W
R4002	301 265 4912	MT-GLAZE	75 FA	1/10W
R4003	301 265 4912	MT-GLAZE	75 FA	1/10W
R4004	301 265 4912	MT-GLAZE	75 FA	1/10W
R4006	301 265 4912	MT-GLAZE	75 FA	1/10W
R4007	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R4008	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R401	301 225 1814	MT-GLAZE	47 JA	1/16W
R4011	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R402	301 225 1814	MT-GLAZE	47 JA	1/16W
R4031	301 225 8110	MT-GLAZE	10 JA	1/16W
R4032	301 225 8110	MT-GLAZE	10 JA	1/16W
R404	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R406	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R407	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R408	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R409	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R411	301 225 1814	MT-GLAZE	47 JA	1/16W
R412	301 225 1814	MT-GLAZE	47 JA	1/16W
R414	301 225 1814	MT-GLAZE	47 JA	1/16W
R421	301 225 1814	MT-GLAZE	47 JA	1/16W
R422	301 225 1814	MT-GLAZE	47 JA	1/16W
R424	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R426	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R427	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R428	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R429	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R431	301 225 1814	MT-GLAZE	47 JA	1/16W
R432	301 225 1814	MT-GLAZE	47 JA	1/16W
R434	301 225 1814	MT-GLAZE	47 JA	1/16W
R437	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R438	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R439	301 224 8814	MT-GLAZE	100 JA	1/16W
R441	301 225 1814	MT-GLAZE	47 JA	1/16W
R442	301 225 1814	MT-GLAZE	47 JA	1/16W
R444	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R446	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R447	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R448	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R449	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R451	301 225 1814	MT-GLAZE	47 JA	1/16W
R452	301 225 1814	MT-GLAZE	47 JA	1/16W
R454	301 225 1814	MT-GLAZE	47 JA	1/16W
R456	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R461	301 224 8814	MT-GLAZE	100 JA	1/16W
R462	301 224 8814	MT-GLAZE	100 JA	1/16W
R463	301 224 8814	MT-GLAZE	100 JA	1/16W
R472	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4803	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R481	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R482	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R483	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4834	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R4860	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4861	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4862	301 037 5215	MT-GLAZE	100 JA	1/10W
R4863	301 224 8814	MT-GLAZE	100 JA	1/16W
R5001	301 276 4314	MT-GLAZE	4.7 JA	1/3W
R5002	301 224 9118	MT-GLAZE	150 JA	1/16W
R5003	301 224 9118	MT-GLAZE	150 JA	1/16W
R5004	301 224 8814	MT-GLAZE	100 JA	1/16W
R5006	301 224 8814	MT-GLAZE	100 JA	1/16W
R5007	301 224 8814	MT-GLAZE	100 JA	1/16W
R5008	301 224 8814	MT-GLAZE	100 JA	1/16W
R501	301 224 9316	MT-GLAZE	1K JA	1/16W
R5011	301 225 1418	MT-GLAZE	47K JA	1/16W
R5012	301 225 1418	MT-GLAZE	47K JA	1/16W
R5013	301 225 1418	MT-GLAZE	47K JA	1/16W
R5014	301 225 1418	MT-GLAZE	47K JA	1/16W
R502	301 225 8110	MT-GLAZE	10 JA	1/16W
R5031	301 225 1319	MT-GLAZE	470 JA	1/16W
R5032	301 225 1319	MT-GLAZE	470 JA	1/16W
R5033	301 235 1415	MT-GLAZE	1.2K JA	1/16W
R5034	301 224 9316	MT-GLAZE	1K JA	1/16W
R5036	301 235 1415	MT-GLAZE	1.2K JA	1/16W
R5037	301 224 9316	MT-GLAZE	1K JA	1/16W
R5038	301 224 9019	MT-GLAZE	10K JA	1/16W
R5039	301 229 7218	MT-GLAZE	18K JA	1/16W
R5041	301 224 9316	MT-GLAZE	1K JA	1/16W
R5042	301 224 9316	MT-GLAZE	1K JA	1/16W

Electrical Parts List

Key No.	Part No.	Description		
R5043	301 276 4710	MT-GLAZE	0.000 ZA	1/3W
R5044	301 224 9019	MT-GLAZE	10K JA	1/16W
R5046	301 224 9019	MT-GLAZE	10K JA	1/16W
R5047	301 224 9613	MT-GLAZE	2.7K JA	1/16W
R5048	301 224 9316	MT-GLAZE	1K JA	1/16W
R5051	301 224 9019	MT-GLAZE	10K JA	1/16W
R5052	301 301 8416	MT-GLAZE	16K FA	1/16W
R5053	301 294 3313	MT-GLAZE	15K FA	1/16W
R5056	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5058	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5061	301 224 9316	MT-GLAZE	1K JA	1/16W
R5062	301 235 1415	MT-GLAZE	1.2K JA	1/16W
R5063	301 224 9316	MT-GLAZE	1K JA	1/16W
R5064	301 224 9316	MT-GLAZE	1K JA	1/16W
R5066	301 235 1415	MT-GLAZE	1.2K JA	1/16W
R5067	301 224 9316	MT-GLAZE	1K JA	1/16W
R5068	301 235 1415	MT-GLAZE	1.2K JA	1/16W
R5069	301 224 9316	MT-GLAZE	1K JA	1/16W
R5071	301 235 1415	MT-GLAZE	1.2K JA	1/16W
R5081	301 224 9019	MT-GLAZE	10K JA	1/16W
R5082	301 224 9316	MT-GLAZE	1K JA	1/16W
R5083	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R511	301 224 8814	MT-GLAZE	100 JA	1/16W
R512	301 224 8814	MT-GLAZE	100 JA	1/16W
R513	301 224 8814	MT-GLAZE	100 JA	1/16W
R520	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R5201	301 225 8110	MT-GLAZE	10 JA	1/16W
R5202	301 225 8110	MT-GLAZE	10 JA	1/16W
R5203	301 225 8110	MT-GLAZE	10 JA	1/16W
R5204	301 225 8110	MT-GLAZE	10 JA	1/16W
R5206	301 225 8110	MT-GLAZE	10 JA	1/16W
R5207	301 225 8110	MT-GLAZE	10 JA	1/16W
R5208	301 224 8814	MT-GLAZE	100 JA	1/16W
R5209	301 224 8814	MT-GLAZE	100 JA	1/16W
R521	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5211	301 224 8814	MT-GLAZE	100 JA	1/16W
R5212	301 224 8814	MT-GLAZE	100 JA	1/16W
R5213	301 225 1814	MT-GLAZE	47 JA	1/16W
R5215	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R5218	945 040 6448	INDUCTOR,3.3U M		
R522	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5223	301 224 9316	MT-GLAZE	1K JA	1/16W
R5224	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5226	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5228	301 224 9316	MT-GLAZE	1K JA	1/16W
R5229	301 036 9610	MT-GLAZE	56 JA	1/8W
R5231	301 036 9610	MT-GLAZE	56 JA	1/8W
R5232	301 036 9610	MT-GLAZE	56 JA	1/8W
R5233	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R5234	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R5236	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R5238	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5239	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R524	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5240	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R5241	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5248	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R5251	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R5253	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R5254	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5255	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5256	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R526	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5302	301 240 9710	MT-GLAZE	820K JA	1/16W
R5303	301 224 9316	MT-GLAZE	1K JA	1/16W
R5304	301 224 9316	MT-GLAZE	1K JA	1/16W
R5306	301 162 2219	MT-GLAZE	10 JA	1/10W
R5307	301 224 9019	MT-GLAZE	10K JA	1/16W
R5308	301 224 9316	MT-GLAZE	1K JA	1/16W
R5309	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R531	301 224 9316	MT-GLAZE	1K JA	1/16W
R5311	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5312	301 224 9316	MT-GLAZE	1K JA	1/16W
R5313	301 224 8814	MT-GLAZE	100 JA	1/16W
R5314	301 224 9415	MT-GLAZE	1M JA	1/16W
R5316	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R5317	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5318	301 225 1517	MT-GLAZE	3.9K JA	1/16W
R5319	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R532	301 225 8110	MT-GLAZE	10 JA	1/16W
R5331	301 240 9710	MT-GLAZE	820K JA	1/16W
R5332	301 224 9316	MT-GLAZE	1K JA	1/16W
R5333	301 224 9316	MT-GLAZE	1K JA	1/16W
R5334	301 224 9019	MT-GLAZE	10K JA	1/16W
R5336	301 224 9316	MT-GLAZE	1K JA	1/16W
R5337	301 224 9316	MT-GLAZE	1K JA	1/16W
R5338	301 226 2414	MT-GLAZE	560 JA	1/16W
R5341	301 162 2219	MT-GLAZE	10 JA	1/10W
R5342	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R5344	301 225 0718	MT-GLAZE	56K JA	1/16W
R5345	301 224 9316	MT-GLAZE	1K JA	1/16W
R5346	301 224 9019	MT-GLAZE	10K JA	1/16W
R5347	301 224 9019	MT-GLAZE	10K JA	1/16W
R5348	301 224 9019	MT-GLAZE	10K JA	1/16W
R541	301 224 8814	MT-GLAZE	100 JA	1/16W
R542	301 224 8814	MT-GLAZE	100 JA	1/16W
R543	301 224 8814	MT-GLAZE	100 JA	1/16W
R550	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R551	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R552	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R554	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R556	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5601	301 190 1710	MT-GLAZE	0.000 ZA	1W
R561	301 224 9316	MT-GLAZE	1K JA	1/16W
R562	301 225 8110	MT-GLAZE	10 JA	1/16W
R5620	301 190 1710	MT-GLAZE	0.000 ZA	1W
R5621	301 190 1710	MT-GLAZE	0.000 ZA	1W
R5625	301 198 7912	MT-GLAZE	47 JA	1W
R5626	301 198 7912	MT-GLAZE	47 JA	1W
R5627	301 198 7912	MT-GLAZE	47 JA	1W
R5631	301 224 8814	MT-GLAZE	100 JA	1/16W
R5632	301 225 5614	MT-GLAZE	2.2 JA	1W
R5633	301 225 5614	MT-GLAZE	2.2 JA	1W
R5641	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5642	301 259 2313	MT-GLAZE	200K JA	1/16W
R5643	301 261 1113	MT-GLAZE	24K JA	1/16W
R5644	301 276 4710	MT-GLAZE	0.000 ZA	1/3W
R5646	301 162 3711	MT-GLAZE	4.7K JA	1/10W
R5647	301 162 3711	MT-GLAZE	4.7K JA	1/10W
R571	301 224 8814	MT-GLAZE	100 JA	1/16W
R572	301 224 8814	MT-GLAZE	100 JA	1/16W
R573	301 224 8814	MT-GLAZE	100 JA	1/16W
R580	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R5801	301 294 3511	MT-GLAZE	27K FA	1/16W
R5802	301 224 8913	MT-GLAZE	100K JA	1/16W
R5803	301 294 3016	MT-GLAZE	10K FA	1/16W
R5804	301 224 9019	MT-GLAZE	10K JA	1/16W
R5806	301 225 2118	MT-GLAZE	12K JA	1/16W
R5807	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R5808	301 224 9019	MT-GLAZE	10K JA	1/16W
R5809	301 224 9019	MT-GLAZE	10K JA	1/16W
R581	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5811	301 224 8913	MT-GLAZE	100K JA	1/16W
R5812	301 224 8913	MT-GLAZE	100K JA	1/16W

Electrical Parts List

Key No.	Part No.	Description		
R5813	301 294 3511	MT-GLAZE	27K FA	1/16W
R5814	301 294 3016	MT-GLAZE	10K FA	1/16W
R582	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5821	301 225 1418	MT-GLAZE	47K JA	1/16W
R5822	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R5823	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R5824	301 287 2227	MT-GLAZE	22K FA	1/16W
R5826	301 338 8113	MT-GLAZE	1.2K FA	1/16W
R5827	301 294 3016	MT-GLAZE	10K FA	1/16W
R5828	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R584	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5841	301 225 1418	MT-GLAZE	47K JA	1/16W
R5842	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R5843	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R5844	301 294 3313	MT-GLAZE	15K FA	1/16W
R5846	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5847	301 294 3016	MT-GLAZE	10K FA	1/16W
R5848	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R586	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5861	301 225 1418	MT-GLAZE	47K JA	1/16W
R5862	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R5863	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R5864	301 294 2613	MT-GLAZE	4.7K FA	1/16W
R5866	301 301 8119	MT-GLAZE	3.9K FA	1/16W
R5867	301 294 3016	MT-GLAZE	10K FA	1/16W
R5868	301 035 4111	MT-GLAZE	0.000 ZA	1/8W
R6800	301 225 1517	MT-GLAZE	3.9K JA	1/16W
R6801	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6802	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R6803	301 224 9019	MT-GLAZE	10K JA	1/16W
R6804	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6806	301 224 9217	MT-GLAZE	15K JA	1/16W
R6807	301 234 9917	MT-GLAZE	6.8K JA	1/16W
R6808	301 225 1517	MT-GLAZE	3.9K JA	1/16W
R6809	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6811	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R6812	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6813	301 224 9019	MT-GLAZE	10K JA	1/16W
R6818	301 225 1517	MT-GLAZE	3.9K JA	1/16W
R6819	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6821	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R6822	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6823	301 224 9019	MT-GLAZE	10K JA	1/16W
R683	301 035 4111	MT-GLAZE	0.000 ZA	1/8W
R6841	301 225 8011	MT-GLAZE	330 JA	1/16W
R6843	301 225 8011	MT-GLAZE	330 JA	1/16W
R6846	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6848	301 225 2019	MT-GLAZE	680 JA	1/16W
R6849	301 225 2019	MT-GLAZE	680 JA	1/16W
R6851	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6853	301 225 1319	MT-GLAZE	470 JA	1/16W
R6854	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6857	301 225 1616	MT-GLAZE	390 JA	1/16W
R6858	301 225 1616	MT-GLAZE	390 JA	1/16W
R6859	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6863	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R6864	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6865	301 224 9316	MT-GLAZE	1K JA	1/16W
R6866	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R691	301 230 8013	MT-GLAZE	1K JA	1/3W
R696	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R699	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7801	301 224 9019	MT-GLAZE	10K JA	1/16W
R7803	301 224 9019	MT-GLAZE	10K JA	1/16W
R7813	301 224 9415	MT-GLAZE	1M JA	1/16W
R7816	301 237 2915	MT-GLAZE	51 JA	1/16W
R7818	301 276 3010	MT-GLAZE	75K JA	1/16W
R7819	301 224 8913	MT-GLAZE	100K JA	1/16W
R7820	301 286 4717	MT-GLAZE	30K JA	1/16W
R7821	301 294 3511	MT-GLAZE	27K FA	1/16W
R7824	301 294 4419	MT-GLAZE	1.8K FA	1/16W
R7828	301 224 9019	MT-GLAZE	10K JA	1/16W
R7829	301 235 1415	MT-GLAZE	1.2K JA	1/16W
R7831	301 224 9316	MT-GLAZE	1K JA	1/16W
R7832	301 224 9019	MT-GLAZE	10K JA	1/16W
R7833	301 224 9613	MT-GLAZE	2.7K JA	1/16W
R7843	301 224 9415	MT-GLAZE	1M JA	1/16W
R7846	301 237 2915	MT-GLAZE	51 JA	1/16W
R7848	301 276 3010	MT-GLAZE	75K JA	1/16W
R7849	301 224 8913	MT-GLAZE	100K JA	1/16W
R7850	301 286 4717	MT-GLAZE	30K JA	1/16W
R7851	301 294 3511	MT-GLAZE	27K FA	1/16W
R7854	301 294 4419	MT-GLAZE	1.8K FA	1/16W
R7858	301 224 9019	MT-GLAZE	10K JA	1/16W
R7859	301 235 1415	MT-GLAZE	1.2K JA	1/16W
R7863	301 224 9415	MT-GLAZE	1M JA	1/16W
R7866	301 237 2915	MT-GLAZE	51 JA	1/16W
R7868	301 276 3010	MT-GLAZE	75K JA	1/16W
R7869	301 224 8913	MT-GLAZE	100K JA	1/16W
R7870	301 286 4717	MT-GLAZE	30K JA	1/16W
R7871	301 294 3511	MT-GLAZE	27K FA	1/16W
R7873	301 190 1710	MT-GLAZE	0.000 ZA	1W
R7874	301 294 4419	MT-GLAZE	1.8K FA	1/16W
R7878	301 224 9019	MT-GLAZE	10K JA	1/16W
R7879	301 235 1415	MT-GLAZE	1.2K JA	1/16W
R7881	301 224 9316	MT-GLAZE	1K JA	1/16W
R7882	301 224 9019	MT-GLAZE	10K JA	1/16W
R7883	301 224 9613	MT-GLAZE	2.7K JA	1/16W
R7891	301 224 9316	MT-GLAZE	1K JA	1/16W
R7892	301 224 9019	MT-GLAZE	10K JA	1/16W
R7893	301 224 9613	MT-GLAZE	2.7K JA	1/16W
R801	301 224 9019	MT-GLAZE	10K JA	1/16W
R802	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R803	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R804	301 224 9019	MT-GLAZE	10K JA	1/16W
R807	301 224 9019	MT-GLAZE	10K JA	1/16W
R808	301 224 9019	MT-GLAZE	10K JA	1/16W
R809	301 225 8516	MT-GLAZE	1.8K JA	1/16W
R8101	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R8102	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R8106	301 224 9019	MT-GLAZE	10K JA	1/16W
R8111	301 224 9019	MT-GLAZE	10K JA	1/16W
R8112	301 224 9316	MT-GLAZE	1K JA	1/16W
R812	301 224 9019	MT-GLAZE	10K JA	1/16W
R8130	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8131	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8132	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8133	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8134	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R839	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R8811	301 225 8110	MT-GLAZE	10 JA	1/16W
R8812	301 225 8110	MT-GLAZE	10 JA	1/16W
R8813	301 224 9019	MT-GLAZE	10K JA	1/16W
R8821	301 225 8110	MT-GLAZE	10 JA	1/16W
R8822	301 225 8110	MT-GLAZE	10 JA	1/16W
R8823	301 224 9019	MT-GLAZE	10K JA	1/16W
R8824	301 224 9019	MT-GLAZE	10K JA	1/16W
R891	301 224 8814	MT-GLAZE	100 JA	1/16W
R9882	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
RB301	945 034 5051	R-NETWORK 22X4	1/32W	
	945 037 0824	R-NETWORK 22X4	1/16W	
RB302	945 034 5051	R-NETWORK 22X4	1/32W	
	945 037 0824	R-NETWORK 22X4	1/16W	
RB303	945 034 5051	R-NETWORK 22X4	1/32W	

Electrical Parts List

Key No.	Part No.	Description
	945 037 0824	R-NETWORK 22X4 1/16W
RB304	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB306	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB307	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB308	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB309	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB401	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB402	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB403	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB404	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB406	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB421	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB422	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB423	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB424	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB426	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB441	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB442	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB443	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB444	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB446	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB501	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB502	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB503	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB531	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB532	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB533	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB561	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB562	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB563	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
COIL		
L1091	945 004 6644	INDUCTOR,220 OHM
L2891	945 086 5368	IMPEDANCE,220 OHM P
L2892	945 086 5368	IMPEDANCE,220 OHM P
L2893	945 086 5368	IMPEDANCE,220 OHM P
L341	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L351	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L352	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L353	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L354	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L356	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L357	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L3581	945 062 2824	INDUCTOR,3.3U M
L361	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L362	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L3620	945 086 5368	IMPEDANCE,220 OHM P
L3621	945 086 5368	IMPEDANCE,220 OHM P
L3622	945 086 5368	IMPEDANCE,220 OHM P
L3624	945 086 5368	IMPEDANCE,220 OHM P
L3626	945 086 5368	IMPEDANCE,220 OHM P
L3627	945 086 5368	IMPEDANCE,220 OHM P
L363	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L3630	945 086 5368	IMPEDANCE,220 OHM P
L3631	945 086 5368	IMPEDANCE,220 OHM P
L3632	945 086 5368	IMPEDANCE,220 OHM P
L3634	945 086 5368	IMPEDANCE,220 OHM P
L3636	945 086 5368	IMPEDANCE,220 OHM P
L3637	945 086 5368	IMPEDANCE,220 OHM P
L366	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L368	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L4001	945 086 7577	FILTER,EMI 400MHZ
L4002	945 086 7577	FILTER,EMI 400MHZ
L4003	945 086 7577	FILTER,EMI 400MHZ
L4004	945 086 7577	FILTER,EMI 400MHZ
L4006	945 086 7577	FILTER,EMI 400MHZ
L401	945 086 5368	IMPEDANCE,220 OHM P
L402	945 086 5368	IMPEDANCE,220 OHM P
L4031	945 086 7454	FILTER,EMI 50MHZ
L4032	945 086 7454	FILTER,EMI 50MHZ
L4801	945 086 5368	IMPEDANCE,220 OHM P
L4802	945 086 5368	IMPEDANCE,220 OHM P
L4803	945 086 5368	IMPEDANCE,220 OHM P
L4804	945 086 5368	IMPEDANCE,220 OHM P
L4861	945 086 5368	IMPEDANCE,220 OHM P
L4862	945 086 5368	IMPEDANCE,220 OHM P
L5001	945 086 5368	IMPEDANCE,220 OHM P
L5002	945 086 5368	IMPEDANCE,220 OHM P
L5031	945 062 2824	INDUCTOR,3.3U M
L5200	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L5332	945 032 8344	INDUCTOR,39U J
L5601	945 086 5368	IMPEDANCE,220 OHM P
L5821	645 092 8826	INDUCTOR,33U M
L5841	645 092 8819	INDUCTOR,100U M
L5861	945 062 2930	INDUCTOR,10U M
L7811	945 062 2855	INDUCTOR,33U M
L7841	945 062 2855	INDUCTOR,33U M
L7861	945 062 2855	INDUCTOR,33U M
L8161	945 004 6644	INDUCTOR,220 OHM
L8801	945 086 5368	IMPEDANCE,220 OHM P
L8802	945 086 5368	IMPEDANCE,220 OHM P
L8803	945 086 5368	IMPEDANCE,220 OHM P
DIODE		
D1024	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D1026	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D1034	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D1036	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D1041	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
	307 221 7119	ZENER DIODE UDZS-TE-1712B
D1042	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)

Electrical Parts List

Key No.	Part No.	Description
	307 221 7119	ZENER DIODE UDZS-TE-1712B
D1091	307 205 5216	DIODE RB521S-30-TE61
D1092	307 205 5216	DIODE RB521S-30-TE61
D2071	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D2501	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D2891	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D2892	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D3601	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3602	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3603	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3604	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3606	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3611	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3612	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3613	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3614	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3617	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3618	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3621	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3622	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3623	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3626	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3627	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3628	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3644	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D4812	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D4813	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D5001	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D5002	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D5061	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D5062	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D5201	307 210 5416	DIODE RB551V-30-TE-17
D5202	307 210 5416	DIODE RB551V-30-TE-17
D5203	307 210 5416	DIODE RB551V-30-TE-17
D5204	307 210 5416	DIODE RB551V-30-TE-17
D5641	307 233 1023	DIODE D1F60A
D56841	307 254 2716	DIODE CMS16
D5821	307 254 2716	DIODE CMS16
D5861	307 254 2716	DIODE CMS16
D6801	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D6802	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D6803	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D6831	307 209 7513	LED SML-210YT T86 L
D6832	307 203 7816	LED SML-210LT T86 M
D6833	307 222 4810	LED SML-521MUW T86
D6841	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
	307 221 7119	ZENER DIODE UDZS-TE-1712B
D6842	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
	307 221 7119	ZENER DIODE UDZS-TE-1712B
D6843	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
	307 221 7119	ZENER DIODE UDZS-TE-1712B
D6844	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
	307 221 7119	ZENER DIODE UDZS-TE-1712B
D7812	307 254 2716	DIODE CMS16
D7842	307 254 2716	DIODE CMS16
D7862	307 254 2716	DIODE CMS16
D8101	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
	307 221 7119	ZENER DIODE UDZS-TE-1712B
D8102	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
	307 221 7119	ZENER DIODE UDZS-TE-1712B
D8161	307 205 5216	DIODE RB521S-30-TE61
D8162	307 205 5216	DIODE RB521S-30-TE61
MISCELLANEOUS		
FB2891	945 086 6037	IMPEDANCE,330 OHM P
FB3620	945 086 6037	IMPEDANCE,330 OHM P
FB3621	945 086 6037	IMPEDANCE,330 OHM P
FB3622	945 086 6037	IMPEDANCE,330 OHM P
FB3624	945 086 6037	IMPEDANCE,330 OHM P
FB3626	945 086 6037	IMPEDANCE,330 OHM P
FB3627	945 086 6037	IMPEDANCE,330 OHM P
FB4801	945 086 6037	IMPEDANCE,330 OHM P
FB602	945 041 1978	INDUCTOR,330 OHM
FB603	945 041 1978	INDUCTOR,330 OHM
FB606	945 041 1978	INDUCTOR,330 OHM
FB607	945 041 1978	INDUCTOR,330 OHM
FB609	945 041 1978	INDUCTOR,330 OHM
FB8801	945 086 6037	IMPEDANCE,330 OHM P
K10A	645 089 7696	SOCKET,D-SUB 15P
K10B	645 089 7696	SOCKET,D-SUB 15P
K40A	645 089 7702	SOCKET,D-SUB 15P
K40B	945 078 1613	SOCKET,DIN 8P
SC1021	945 076 3503	SURGE-ABSORBER
SC1022	945 076 3503	SURGE-ABSORBER
SC1023	945 076 3503	SURGE-ABSORBER
SC1031	945 076 3503	SURGE-ABSORBER
SC1032	945 076 3503	SURGE-ABSORBER
SC1033	945 076 3503	SURGE-ABSORBER
SC4001	945 076 3503	SURGE-ABSORBER
SC4002	945 076 3503	SURGE-ABSORBER
SC4003	945 076 3503	SURGE-ABSORBER
SC4004	945 076 3503	SURGE-ABSORBER
SC4006	945 076 3503	SURGE-ABSORBER
SC4031	945 076 3503	SURGE-ABSORBER
SC4032	945 076 3503	SURGE-ABSORBER
SC5608	945 076 3503	SURGE-ABSORBER
SW6800	945 026 2792	SWITCH,PUSH 1P-1TX1
SW6801	945 026 2792	SWITCH,PUSH 1P-1TX1
SW6802	945 026 2792	SWITCH,PUSH 1P-1TX1
SW6803	945 026 2792	SWITCH,PUSH 1P-1TX1
SW6804	945 026 2792	SWITCH,PUSH 1P-1TX1
SW6806	945 026 2792	SWITCH,PUSH 1P-1TX1
SW6807	945 026 2792	SWITCH,PUSH 1P-1TX1

Electrical Parts List

Key No.	Part No.	Description		
SW6808	945 026 2792	SWITCH,PUSH 1P-1TX1		
SW6809	945 026 2792	SWITCH,PUSH 1P-1TX1		
SW6811	945 026 2792	SWITCH,PUSH 1P-1TX1		
X341	945 088 7179	OSC,CRYSTAL 27.0MHZ		
XL1021	945 086 7577	FILTER,EMI 400MHZ		
XL1022	945 086 7577	FILTER,EMI 400MHZ		
XL1023	945 086 7577	FILTER,EMI 400MHZ		
XL1024	945 086 7560	FILTER,EMI 200MHZ		
XL1026	945 086 7560	FILTER,EMI 200MHZ		
XL1031	945 086 7577	FILTER,EMI 400MHZ		
XL1032	945 086 7577	FILTER,EMI 400MHZ		
XL1033	945 086 7577	FILTER,EMI 400MHZ		
XL1034	945 086 7560	FILTER,EMI 200MHZ		
XL1036	945 086 7560	FILTER,EMI 200MHZ		

610 333 8064 ASSY,PWB,R/CS. KL6AC

CAPACITOR

C2901	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C2902	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C2903	403 457 3311	CERAMIC	47U M	6.3V
	303 380 0114	CERAMIC	47U M	6.3V

RESISTOR

R2901	301 225 1814	MT-GLAZE	47 JA	1/16W
R2902	301 224 8814	MT-GLAZE	100 JA	1/16W

MISCELLANEOUS

A2901	945 084 1997	UNIT,REMOCON RECEIVER

610 333 7951 ASSY,PWB,TEMP KL6AC

INTEGRATED CIRCUIT

IC4831	309 481 8615	IC LM76CHMX-5

CAPACITOR

C4831	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C4832	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C4833	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4834	403 455 9018	CERAMIC	10U K	16V
	303 379 6714	CERAMIC	10U K	16V

RESISTOR

R4831	301 225 8110	MT-GLAZE	10 JA	1/16W
R4832	301 225 8110	MT-GLAZE	10 JA	1/16W
R4833	301 224 9019	MT-GLAZE	10K JA	1/16W

PACKING MATERIALS

	610 334 0272	CARTON CASE-KL6AC
	610 334 0302	CUSHION SPACER-KL6AC
	610 333 9511	CUSHION BTM-KM6AC
	610 333 8934	CUSHION TOP-KM6AC
	610 336 7033	INSTALLATION SHEET KL6AC
	945 068 6864	POLY BAG-0440X0480*NC

Key No.	Part No.	Description

ACCESSORIES

OWNER'S MANUAL

	610 333 8569	CD-ROM,OWNERS MANUAL-KL6AC
	610 333 8712	SETUP INST MANUAL-KL6AC

REMOTE CONTROL

	945 086 4965	ASSY,REMOCON CXVM
	910 321 4482	RC-BATTERY LID-CXTJ

⚠ AC CORD

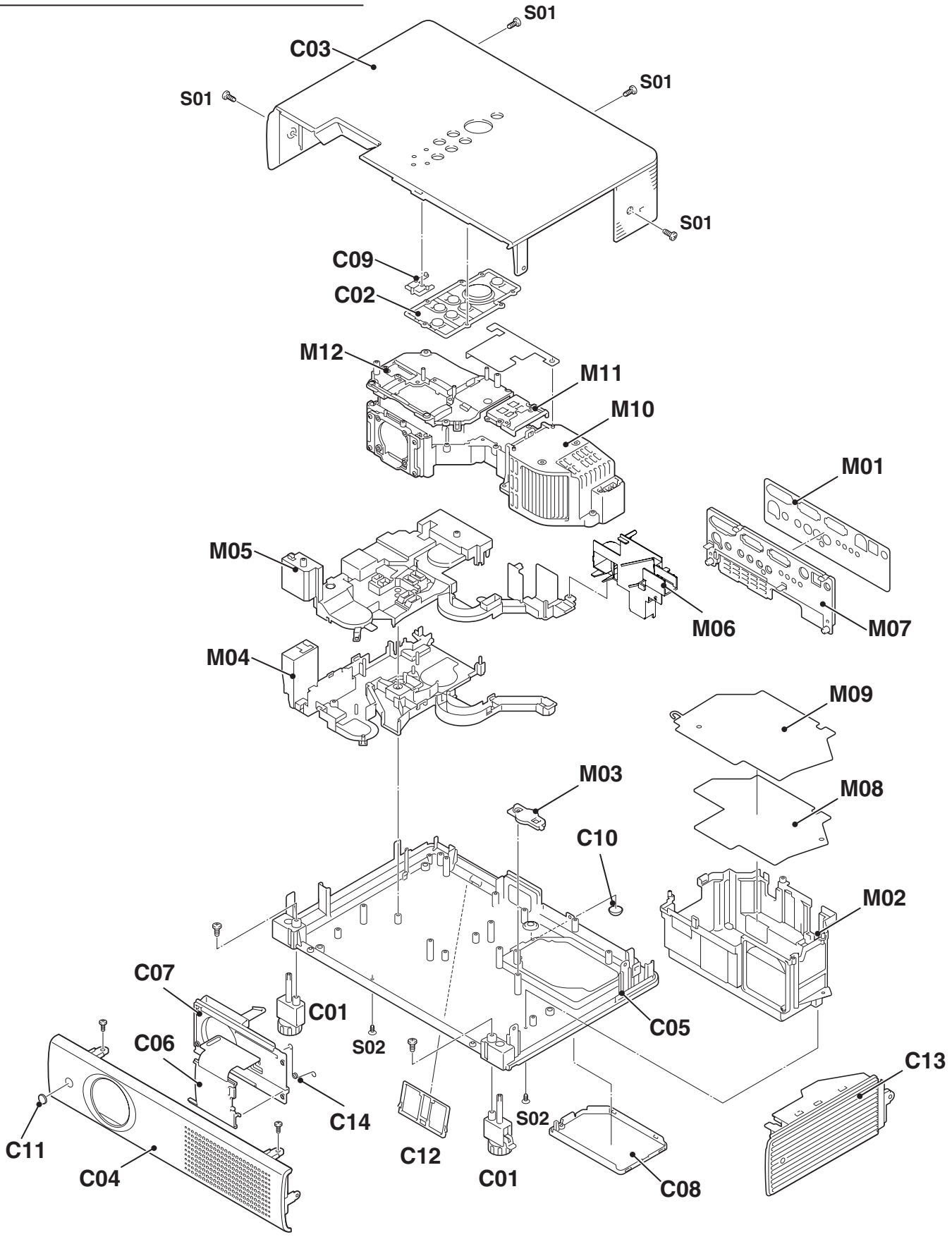
US	945 064 6363	CORD,POWER-3.0MK,US
EU	945 054 1156	CORD,POWER-3.0MK
UK	945 054 1148	CORD,POWER-3.138MK

MISCELLANEOUS

	945 073 4855	CABLE,INTERFACE VGA
	645 093 1642	CABLE,INTERFACE VGA

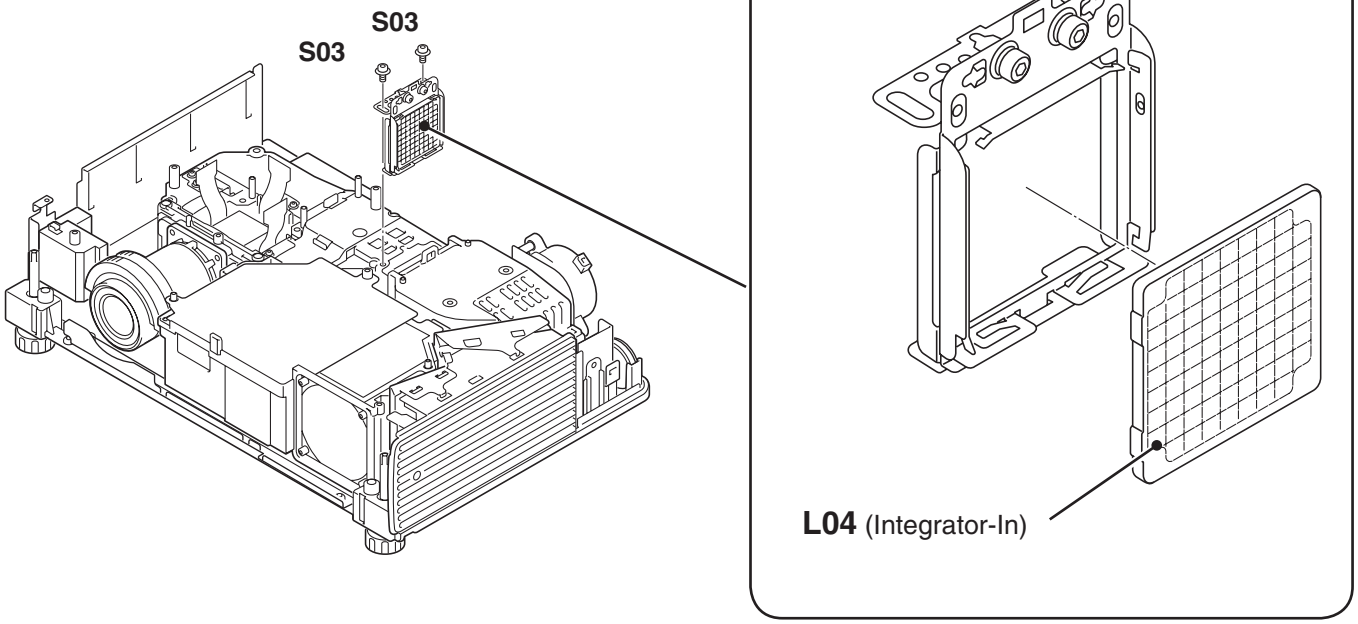
Mechanical Parts List

Cabinet Parts Location

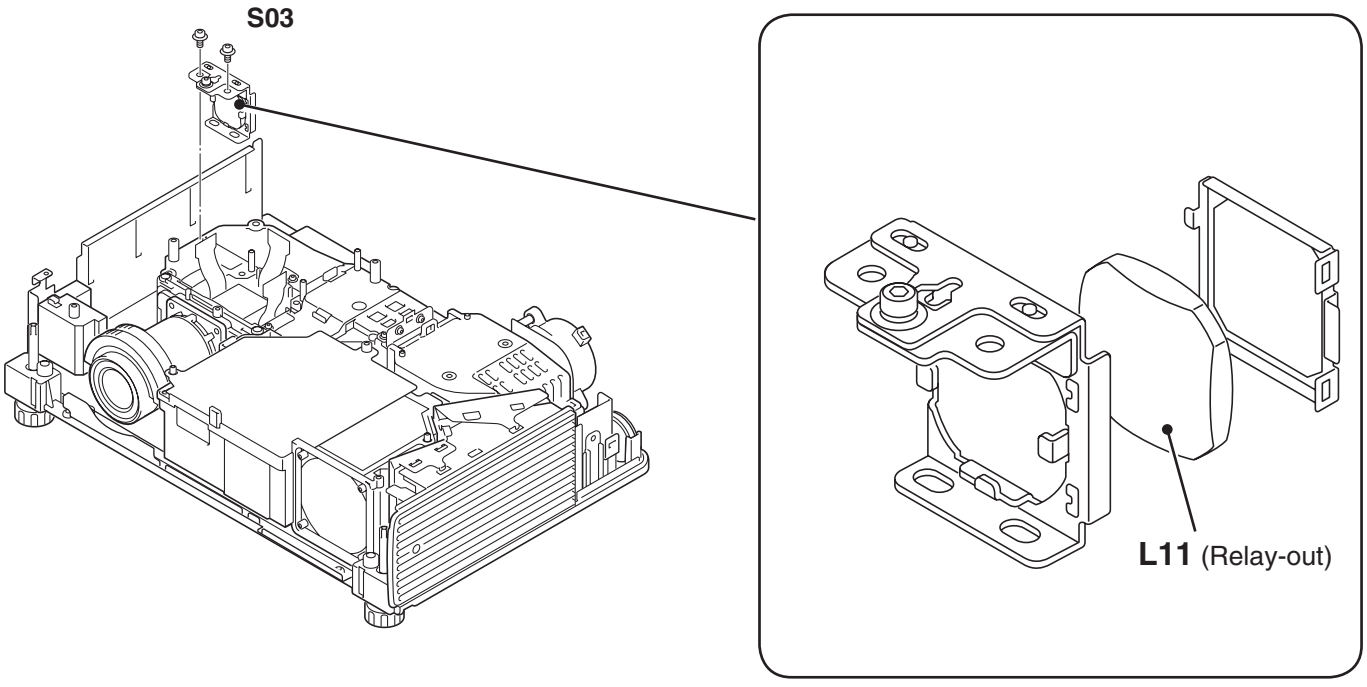


Optical Parts Location

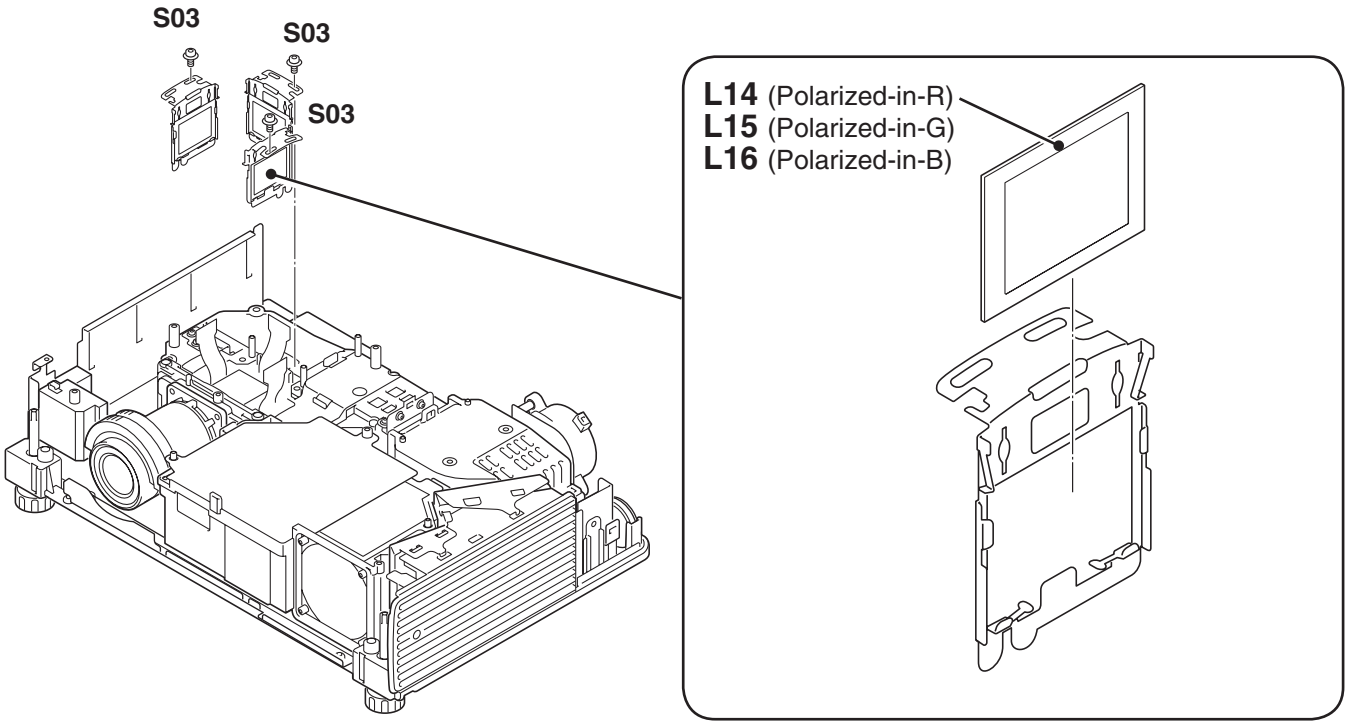
Integrator Lens-In



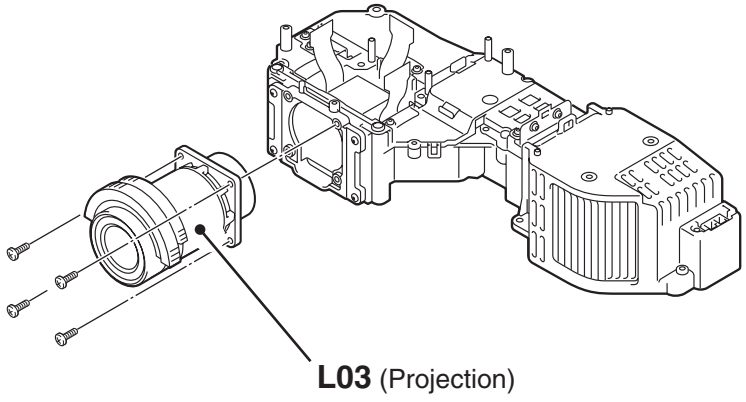
Relay Lens-Out



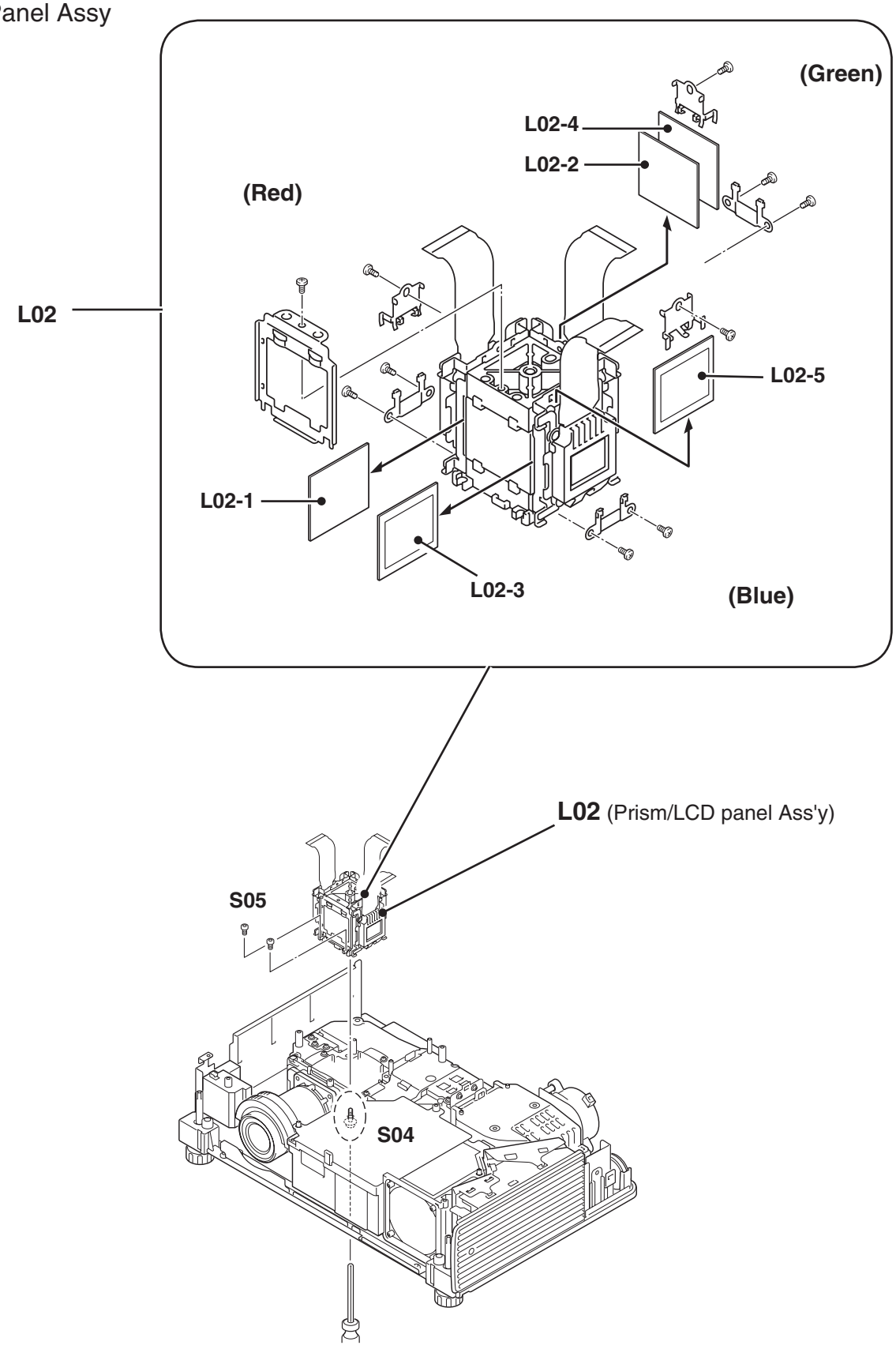
Polarized Glass-In



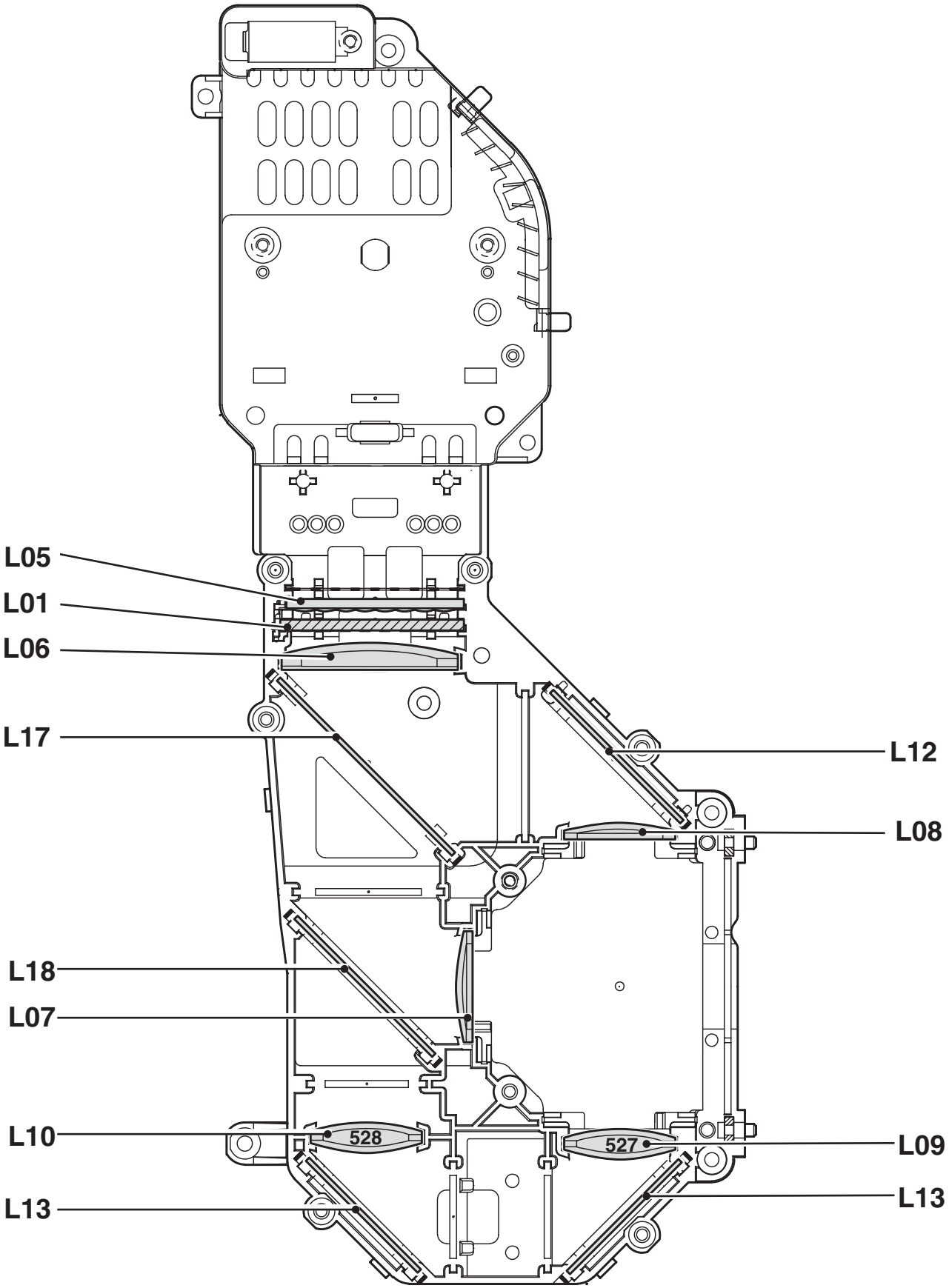
Projection Lens



Prism/LCD Panel Assy



In the Optical Unit



Mechanical Parts List

Note: Parts order must contain Chassis No., Part No., and Descriptions.

Key No.	Part No.	Description
CABINET PARTS		
C01	610 331 6413	ASSY,STAND LEG-KM6A
C02	610 333 9276	BUTTON-KM6AC
C03	610 333 8682	CABINET TOP-KL6AC
C04	610 333 9566	CABINET FRONT-KL6AC
C05	610 333 9054	CABINET BOTTOM-KL6AC
C06	610 333 8729	CAP LENS-KM6AC
C07	610 333 9269	CAP LENS BASE-KM6AC
C08	610 333 8798	COVER ,LP SERVICE-KM6AC
C09	610 333 9207	DEC INLAY LED-KL6AC
C10	910 325 2477	DEC LEG-PT5EC
C11	910 302 5613	DEC SHEET-M4JA
C12	610 333 9290	FILTER BASE-KM6AC
C13	610 333 8576	GRILLE-KM6AC
C14	610 333 9344	SPRING CAP-KM6AC
CHASSIS PARTS		
M01	610 333 9252	DEC AV SHEET-KL6AC
M02	610 334 4348	HOLDER POWER PWB BTM-KM6AC
M03	610 334 5895	HOLDER T SW-KM6AC
M04	610 334 0265	MOUNTING DUCT BTM-KM6AC
M05	610 334 0258	MOUNTING DUCT TOP-KM6AC
M06	610 334 4386	MOUNTING DUCT LP-KM6AC
M07	610 333 9634	PANEL AV-KM6AC
M08	610 334 0067	SPACER SHEET#POWER T-KM6AC
M09	610 334 7097	SPACER SHEET#POW T TOP-KM6AC
M10	610 331 1692	OPTICAL BASE BTM-KM6A
M11	610 331 1715	OPTICAL BASE TOP A-KM6A
M12	610 331 1722	OPTICAL BASE TOP B-KM6A
SCREWS		
S01	411 190 5001	SCR S-TPG BIN 3X10
S02	411 200 2808	SCR TPG FLT 3X8
S03	411 189 6507	BOLT HEX-SCT+SW+W 2.5X5
S04	312 069 7105	SPECIAL SCREW V
S05	312 070 3400	SPECIAL SCREW-3.0X10V
OPTICAL PARTS		
L01	645 092 9892	PRISM(PBS)
L02	610 335 2084	ASSY,LCD PNL/PRISM -KM6AC
	(Including Key No. L02-1 to L02-5 and LCD Panels)	
L02-1	645 089 3506	POLARIZED GLASS(OUT/R)
L02-2	645 089 3513	POLARIZED GLASS(OUT/G)
L02-3	645 089 3520	POLARIZED GLASS(OUT/B)
L02-4	645 089 4091	PREPOLARIZED GLASS(OUT/G)
L02-5	645 089 4107	PREPOLARIZED GLASS(OUT/B)
L03	945 061 3945	LENS,PROJECTION
L04	945 088 7797	LENS,INTEGRATOR(IN)
L05	945 088 7803	LENS,INTEGRATOR(OUT)
L06	945 088 7827	LENS,CONDENSER(OUT)
L07	945 088 7834	LENS,CONDENSER(G)
L08	945 088 7841	LENS,CONDENSER(B)
L09	945 088 7858	LENS,CONDENSER(R)
L10	945 088 7865	LENS,RELAY(IN)
L11	945 088 7872	LENS,RELAY(OUT)
L12	945 088 7889	MIRROR(B)
L13	945 088 7896	MIRROR(R)
L14	645 089 3476	POLARIZED GLASS(IN/R)
L15	645 089 3483	POLARIZED GLASS(IN/G)
L16	645 089 3490	POLARIZED GLASS(IN/B)
L17	945 088 7902	DICHROIC MIRROR (B)
L18	945 088 7919	DICHROIC MIRROR (G)

Key No.	Part No.	Description

(KL6AC) Jun. 2007 DC 350 Printed in Japan

SANYO Electric Co., Ltd.

Diagrams & Drawings

Schematic Diagrams
Printed Wiring Board Drawings

Model	Chassis No.
PLC-XU101	KL6-XU10100

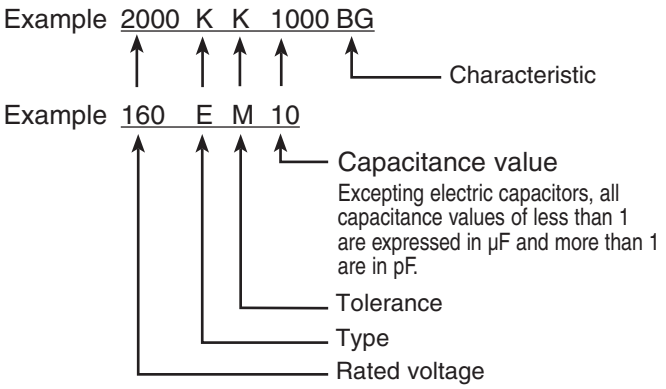
These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. KL6-XU10100, model PLC-XU101. File with the service manual No. SM5110857-00

Note:
All the information of part numbers and values indicated on these diagrams are at the beginning of production. To improve the performance, there may be some differences to the actual set. When you order the service parts, use service parts code mentioned on the parts list in this service manual.

Parts description and reading in schematic diagram

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video color bar signal (1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading


Example 2000 K K 1000 BG
Characteristic
Example 160 E M 10
Capacitance value
Excepting electric capacitors, all capacitance values of less than 1 are expressed in µF and more than 1 are in pF.
Tolerance
Type
Rated voltage

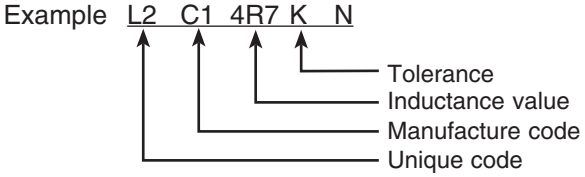
● **Material table**

Mark	Material
E	Electrolytic
P	Electrolytic (non-polarized)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalized polypropylene
H	Metalized polypromylar
B	Ceramic (semiconductor)
G	Metalized polyestel
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

● **Tolerance table**

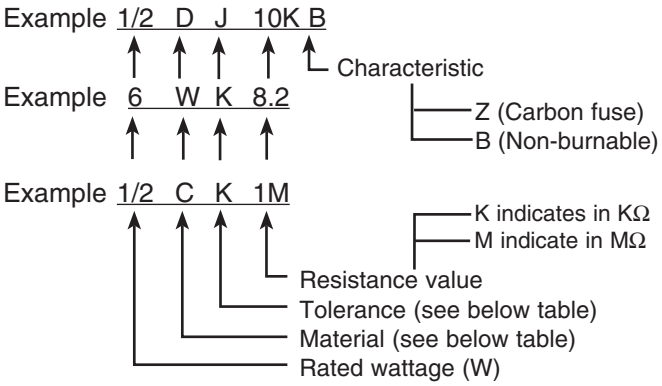
Mark	Tolerance	
A	not specified	
B	±0.1	
C	±0.25	
D	±0.5	
F	±1	
G	±2	
E	±2.5	
H	±3	
J	±5	
K	±10	
M	±20	
N	±30	
P	+100	-0
Q	+30	-10
T	+50	-10
U	+75	-10
V	+20	-10
W	+100	-10
X	+40	-20
Y	+150	-10
Z	+80	-20

Coil Reading



Mark	Tolerance (nH)	Mark	Tolerance (%)
C	±0.25	G	±2
D	±0.5	J	±5
S	±0.3	K	±10
A	±0.2	L	±15
		M	±20

Resistor Reading



Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

● **Material table**

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire wounding or cement
H	Ceramic
F	Fusible

● **Tolerance table**

Mark	Tolerance
A	±0.05
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
J	±5
K	±10
M	±20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

● **Diode**

Mark	Type number
R	1S2076A,1S2473,1N4148
AA	1S2076A,1S2473,1SS133,1N4148

● **Transistor**

(1) NPN type

Mark	Type number				
--	2SC536	2SC945A	2SC1815	2SC1740S	
AD	NF, NG	PA, QA	Y, GR	Q, R, S	
AE	NF, NG	PA, QA, RA	O, Y, GR	Q, R, S	

(2) PNP type

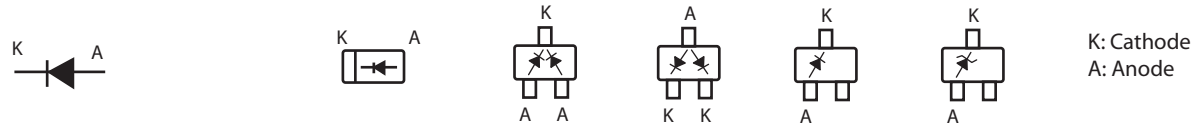
Mark	Type number				
--	2SA608	2SA564A	2SA1015	2SA933S	
AB	NF	R	Y, GR	R	
AC	NF	Q, R	O, Y, GR	Q, R	

(3) Chip type

Mark	Type number				
--	2SA1179N	2SA1037K	2SA1037AK	2SC2812/N	2SC2412K
AJ	M6, M7	R, S	R, S		
AH				L6, L7	R, S

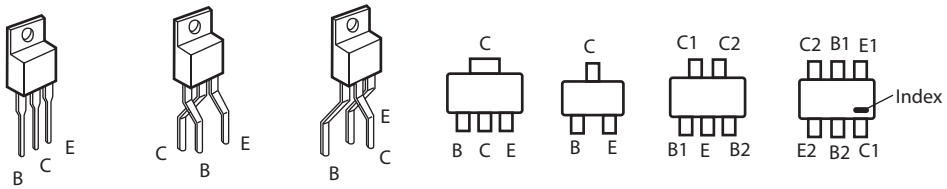
Pin description of diode, transistor and IC

● Diode



K: Cathode
A: Anode

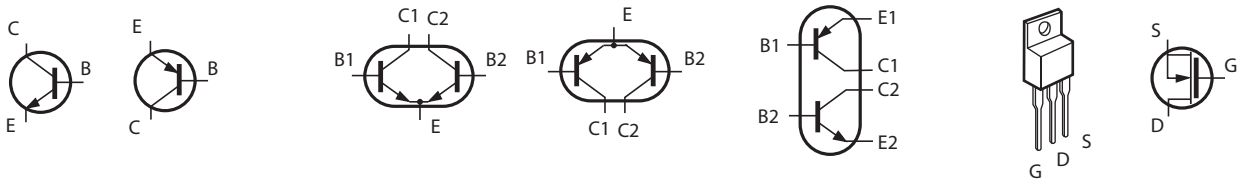
● Transistor/FET



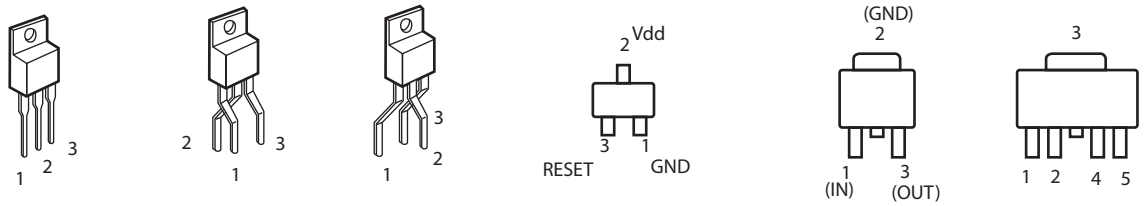
C: Collector
B: Base
E: Emitter

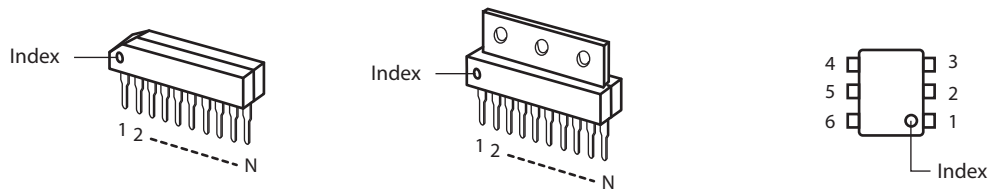
D: Drain
G: Gate
S: Source

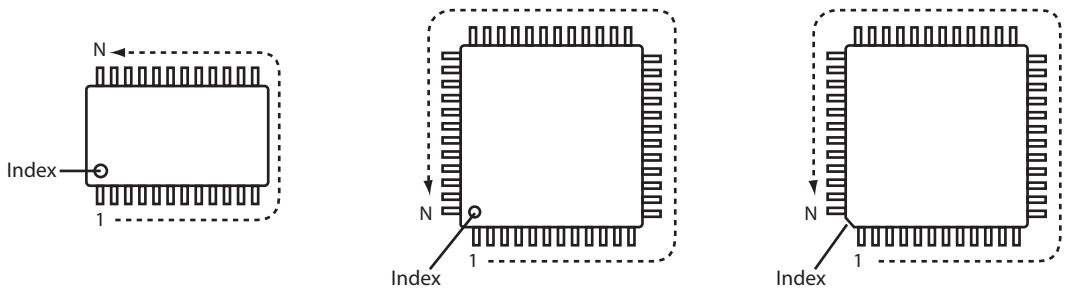
FET

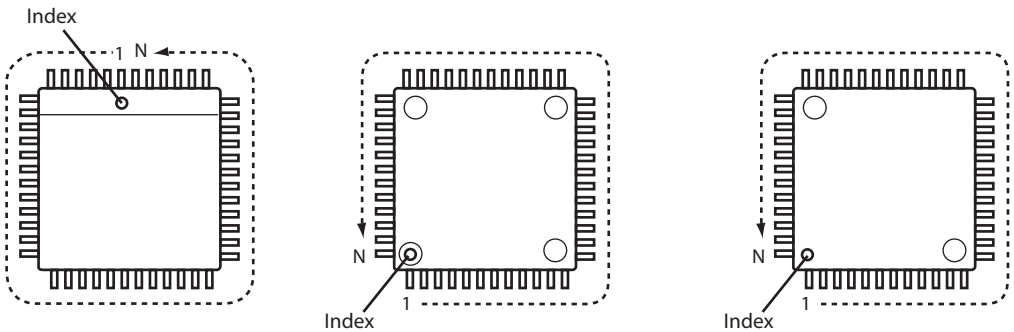


● IC









Note on Soldering

Do not use solder containing lead.

This product has been manufactured using lead-free solder in order to help preserve the environment.

Because of this, be sure to use lead-free solder when carrying out repair work, and never use solder containing lead.

Lead-free solder has a melting point that is 30–40 °C (86–104 °F) higher than solder containing lead, and moreover it does not contain lead which attaches easily to other metals. As a result, it does not melt as easily as solder containing lead, and soldering will be more difficult even if the temperature of the soldering iron is increased.

The extra difficulty in soldering means that soldering time will increase and damage to the components or the circuit board may easily occur.

Because of this, you should use a soldering iron and solder that satisfy the following conditions when carrying out repair work. Also, soldering work must be done in a short time.

Soldering iron

Use a soldering iron which is 70 W or equivalent, and which lets you adjust the tip temperature up to 450 °C (842 °F) It should also have as good temperature recovery characteristics as possible.

Solder

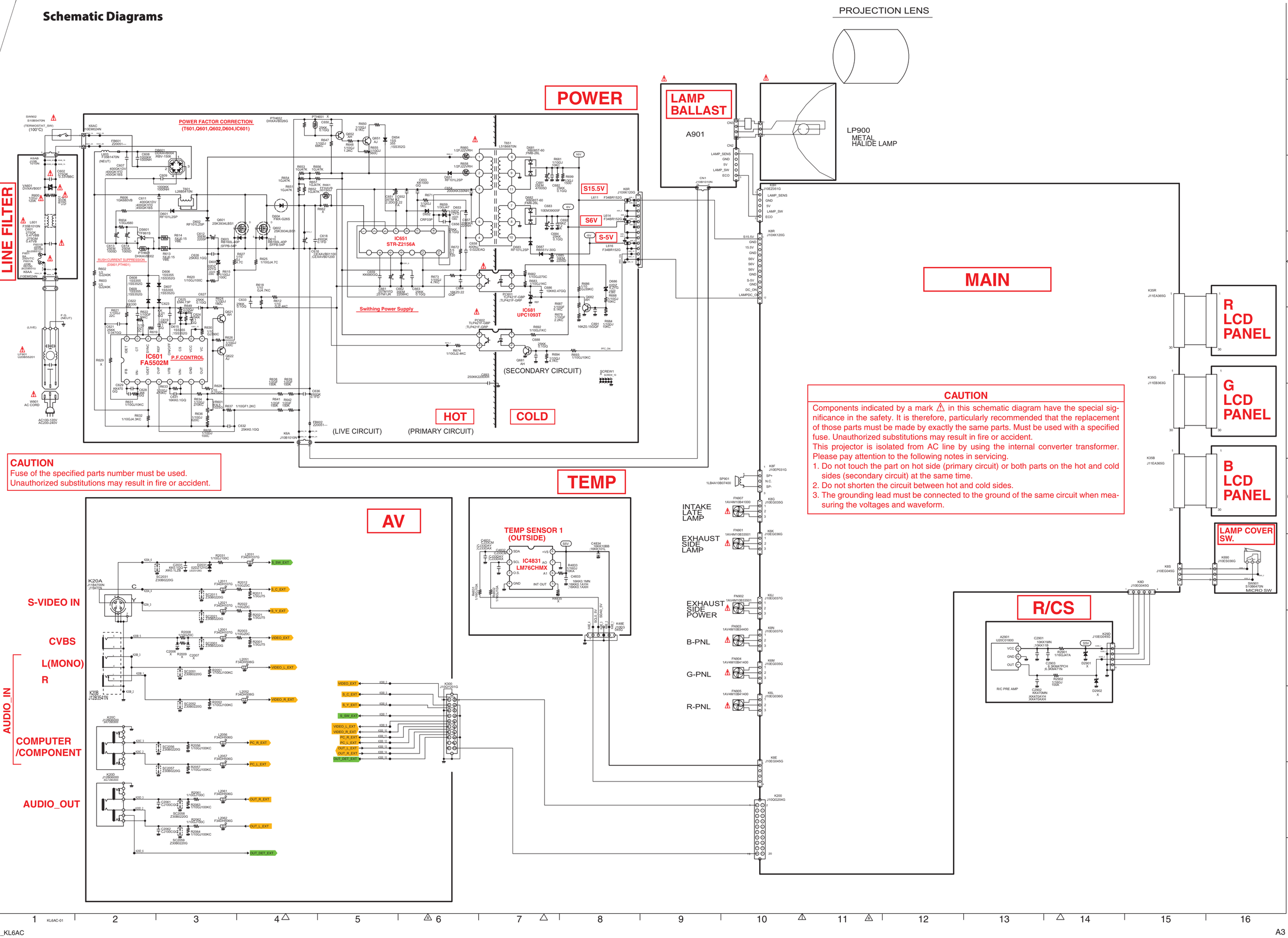
Use solder with the metal content and composition ratio by weight given in the table below. Do not use solders which do not meet these conditions.

Metal content	Tin (Sn)	Silver (Ag)	Copper (Cu)
Composition ratio by weight	96.5 %	3.0 %	0.5 %

Note:

If replacing existing solder containing lead with lead-free solder in the soldered parts of products that have been manufactured up until now, remove all of the existing solder at those parts before applying the lead-free solder.

Schematic Diagrams



CAUTION
Fuse of the specified parts number must be used.
Unauthorized substitutions may result in fire or accident.

CAUTION
Components indicated by a mark ⚠ in this schematic diagram have the special significance in the safety. It is therefore, particularly recommended that the replacement of those parts must be made by exactly the same parts. Must be used with a specified fuse. Unauthorized substitutions may result in fire or accident.
This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing.
1. Do not touch the part on hot side (primary circuit) or both parts on the hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring the voltages and waveform.

COMPUTER IN 1
RGB

MONITOR
OUT

COMPUTER IN 2
/COMPONENT IN

AV

CVBS
S-VIDEO
VIDEO
AUDIO_IN
PC
AUDIO_IN
AUDIO_OUT

SERVICE
PORT

K10A_R
K10A_G
K10A_B
K10A_H
K10A_V

VGA-HDCP
MEMORY
IC8101
24LC21AT/SN

DDC-SW
IC8131
TC74LVX4053

IC4011
TC7WT241
SYNC-OUT

RGB-OUT

IC4001
EL5308IUZ

PC1/PW2-SW
IC5201
AN5870SB

IC5304
AD8057ART

IC5301
BA7078AF

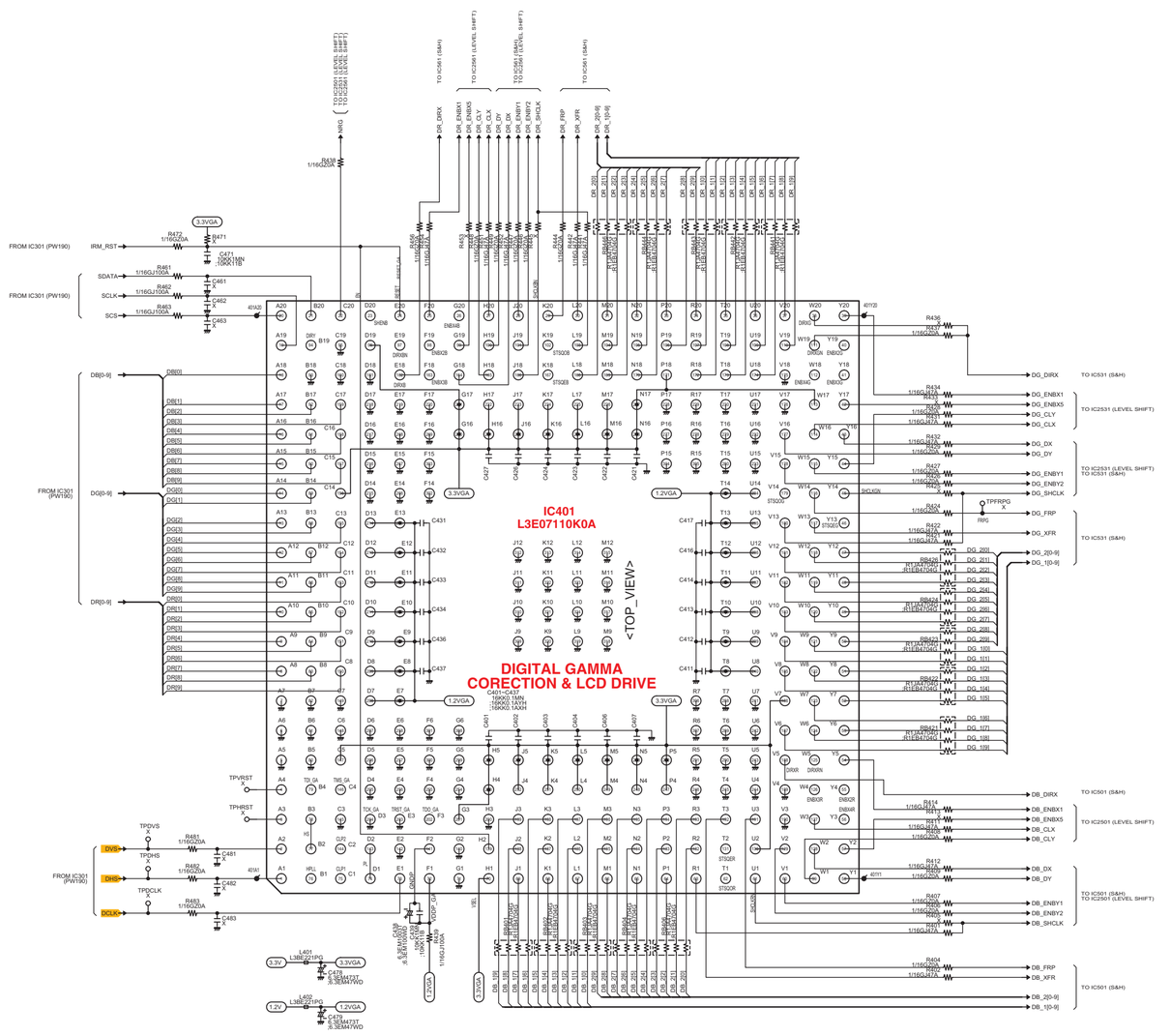
IC5302
TC7WH125FU
SYNC-SEP.

VGA-HDCP
MEMORY
IC1051
24LC21AT/SN

DDC-SW
IC1041
TC74LVX4053FT

MAIN-1

IC1351
TC7WBD125AFK
BUS-SW
IC1371
TC7WBD125AFK
BUS-SW
IC1391
24LC64T-I
SERVICE
MEMORY
IC891
HD74LVC14T
IC301
PW190
<TOP_VIEW>
SCALER
27MHz
IC3801
HIN202EIBNZ
RS-232C
DRIVER
IC5801
FA7711V
DC-DC
CONTROL
Q5821
(RTQ025P02-TR)
Q5841
(RTQ025P02-TR)
Q5861
(RTQ025P02-TR)
RAM
IC801
S29GL032A90
RESET
IC1301
PST413A300NR
MAIN-2
OPTION RESISITORS
See parts list for the details.
TO GAMMA,S/H
TO HDCP,ANALOG DDC
TO AV
FROM IC301
SCL2_5V
SDA2_5V
SCL0_5V
SDA0_5V
SCLK
DEN
DE
DOS
DB[0-9]
DG[0-9]
DR[0-9]
R[0-23]
G[0-23]
B[0-23]
HS
VS
DB[0-15]
ROMDE
ROMWE
A[1-23]
LED
RGB
SCART_CVI
SCK
SDA
MUTE
PWR_LED
READY_LED
WARNING_LED
LAMPREPT_LED
IRRCVR
TICE
TICE(J30B1940)
SCL
SDA
SWRST
SCL
SDA
RESET
MITSUMI
TOREX
XC6371A
1.GND
2.VOUT
3.VDD
1.OUT
2.VSS
3.VDD
SCL
SDA
SCL
SDA
SCL
SDA


IC401
L3E07110K0A
<TOP_VIEW>
DIGITAL GAMMA
CORECTION & LCD DRIVE
IRM_RST
SDATA
SCLK
SCS
FROM IC301 (PW190)
DB[0-9]
DR[0-9]
DG[0-9]
DVS
DHS
DCLK
TPVRST
TPHRST
TPDVS
TPDHS
TPDCLK
3.3VGA
1.2VGA
TO IC501 (S&H)
TO IC2501 (LEVEL SHIFT)
TO IC501 (S&H)
TO IC501 (S&H)
TO IC2501 (LEVEL SHIFT)
TO IC501 (S&H)
DG_DIRX
DG_ENBX1
DG_ENBX5
DG_CLY
DG_CLX
DG_DX
DG_DY
DG_ENBY1
DG_ENBY2
DG_SHCLK
DG_FRP
DG_XFR
DG_2[0-9]
DG_1[0-9]
DB_DIRX
DB_ENBX1
DB_ENBX5
DB_CLX
DB_CLY
DB_DX
DB_DY
DB_ENBY1
DB_ENBY2
DB_SHCLK
DB_FRP
DB_XFR
DB_2[0-9]
DB_1[0-9]
IC3501
M62334FP
DAC
[FAN CONTROL]
SDA0_5V
SCL0_5V
5V
FAN_CON_C
FAN_CON_B
FAN_CON_A
IC7801
IC7861
D2501
1SS355
P_FAIL
15V_INL
15.5V
ON_15V
Q2501
2SK1203Y
Q2502
RN1117P
MAIN-3

IC501
L3E06150S2A
B-D/A
S&H

IC531
L3E06150S2A
G-D/A
S&H

IC561
L3E06150S2
R-D/A
S&H

IC2501
L3E01060P0B
B-LEVEL
SHIFT

IC2531
L3E01060P0B
G-LEVEL
SHIFT

IC2561
L3E01060P0B
R-LEVEL
SHIFT

B-PANEL

G-PANEL

R-PANEL

MAIN-4

LED

KEY SW

R/C

LAMP BALAST

LAMP COVER SW

POWER

NAND

FAN_A

B-PANEL FN903

G-PANEL FN904

R-PANEL FN905

FAN_B

EXHAUST LAMP FN901

EXHAUST POWER FN902

FAN_C

INTAKE LAMP FN907

TEMP SENSOR 3 (LAMP)

IC8811 LM76CHMX

TEMP SENSOR 2 (PANEL)

IC8821 LM76CHMX

TEMP.

AUDIO SELECTOR

(FROM AV JACK)

(TO AV JACK)

IC5001 NJW1141M

IC5081 L88MS05TL

IC5031 LM4889MM

AUDIO OUTPUT

TPFANA

TPFANB

TPFANC

IC7811 FA7701V

IC7861 FA7701V

IC7841 FA7701V

IC9882 TC74ACT14FT

IC4891 TC7SET00FU

IC5641 SI-3012KS

IC5642 BA09BC0FP

IC5601 BA05FP-E2 ;BA50BC0FP

IC5631 SI3033ZD

IC491 PQ012FZ 1.2V_REG.

	OSRAM	Phi
R4862	2.2K	10K
R4862	1.2K	390
R4863	1.2K	390

	SVGA	XGA
R600	O	X
R699	X	O

D6831 LAMP REPLACE(Y)
D6832 TEMP WARNING(R)
D6833 STAND-BY (RED ON)
LAMP ON (GREEN ON)

MAIN-5

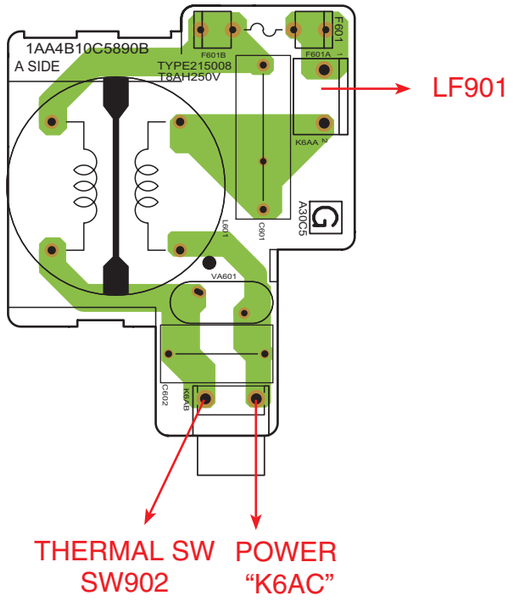
KL6AC-06

A8

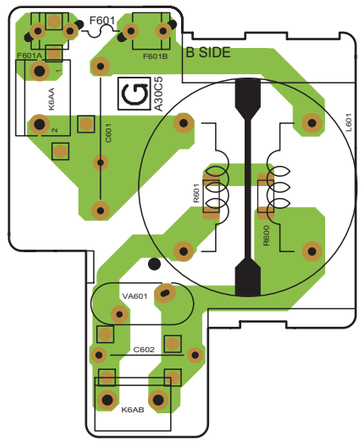
SCH_KL6AC

Printed Wiring Board Diagrams

LINE FILTER (SIDE:A)



LINE FILTER (SIDE:B)



⚠ CAUTION

This projector is isolated from AC line by using the internal converter transformer.
Please pay attention to the following notes in servicing

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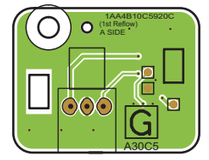
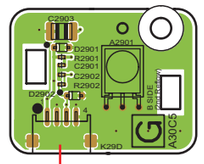
R/CS (SIDE:A)



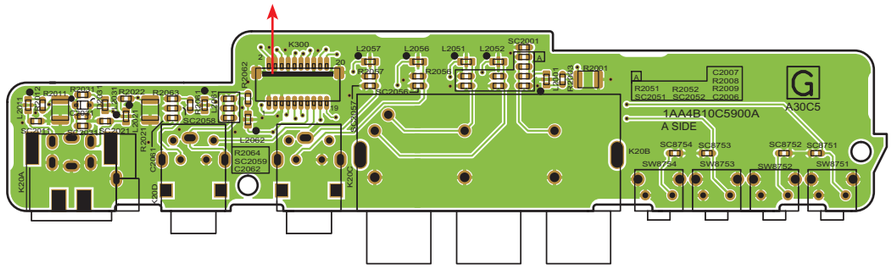
R/CS (SIE:B)



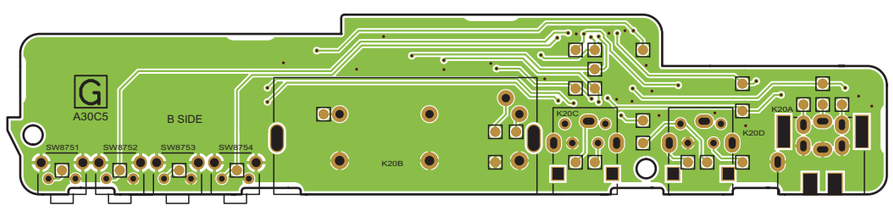
MAIN
"K8D"

AV (SIDE:A)

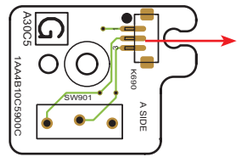
MAIN
"K200"



AV (SIE:B)

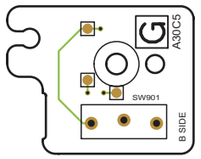


LAMP COVER SW (SIDE:A)



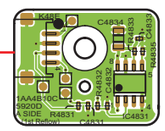
MAIN
"K8S"

LAMP COVER SW (SIDE:B)

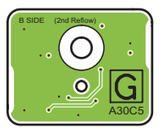


TEMP. (SIDE:A)

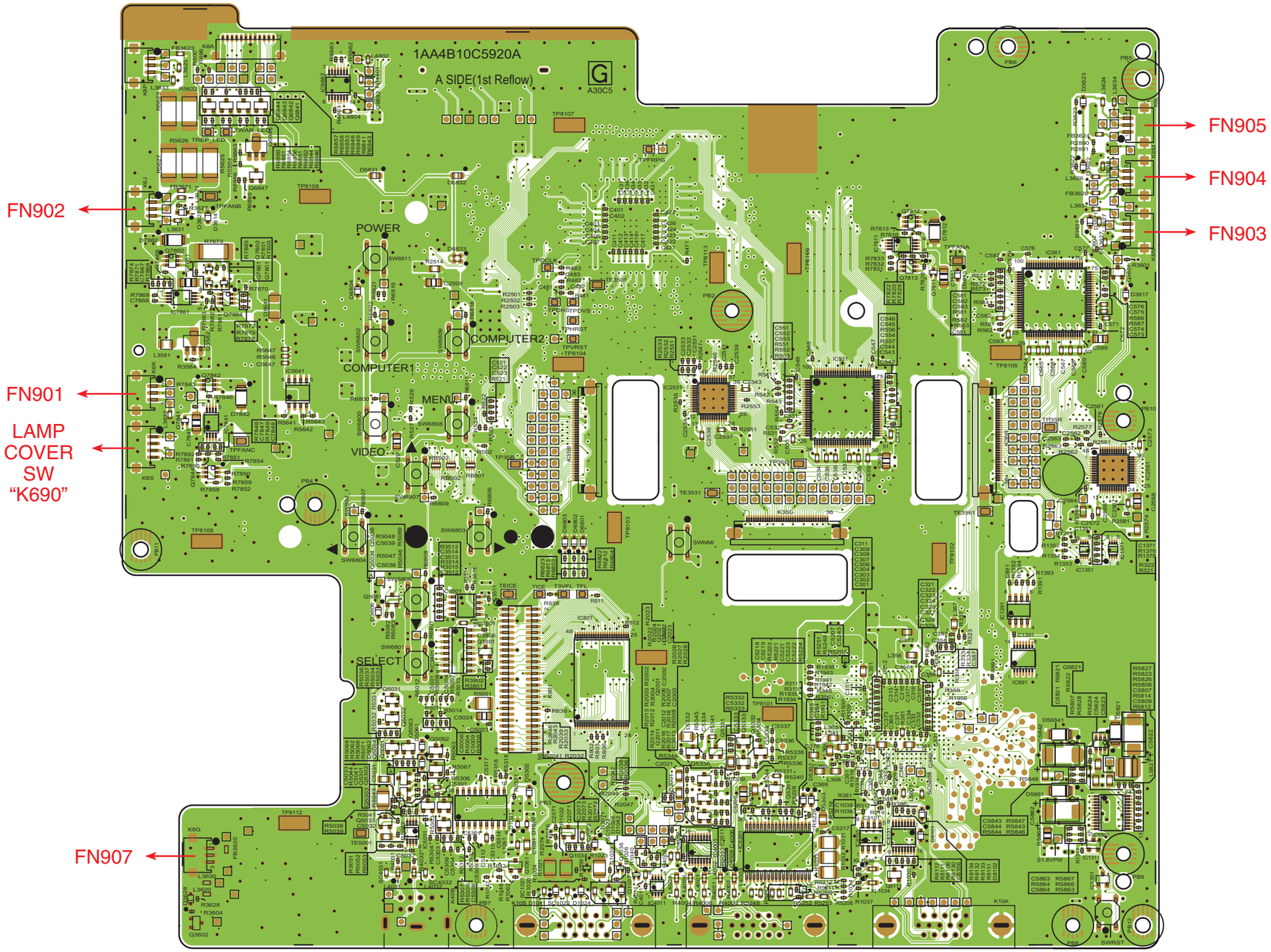
MAIN
"K8E"



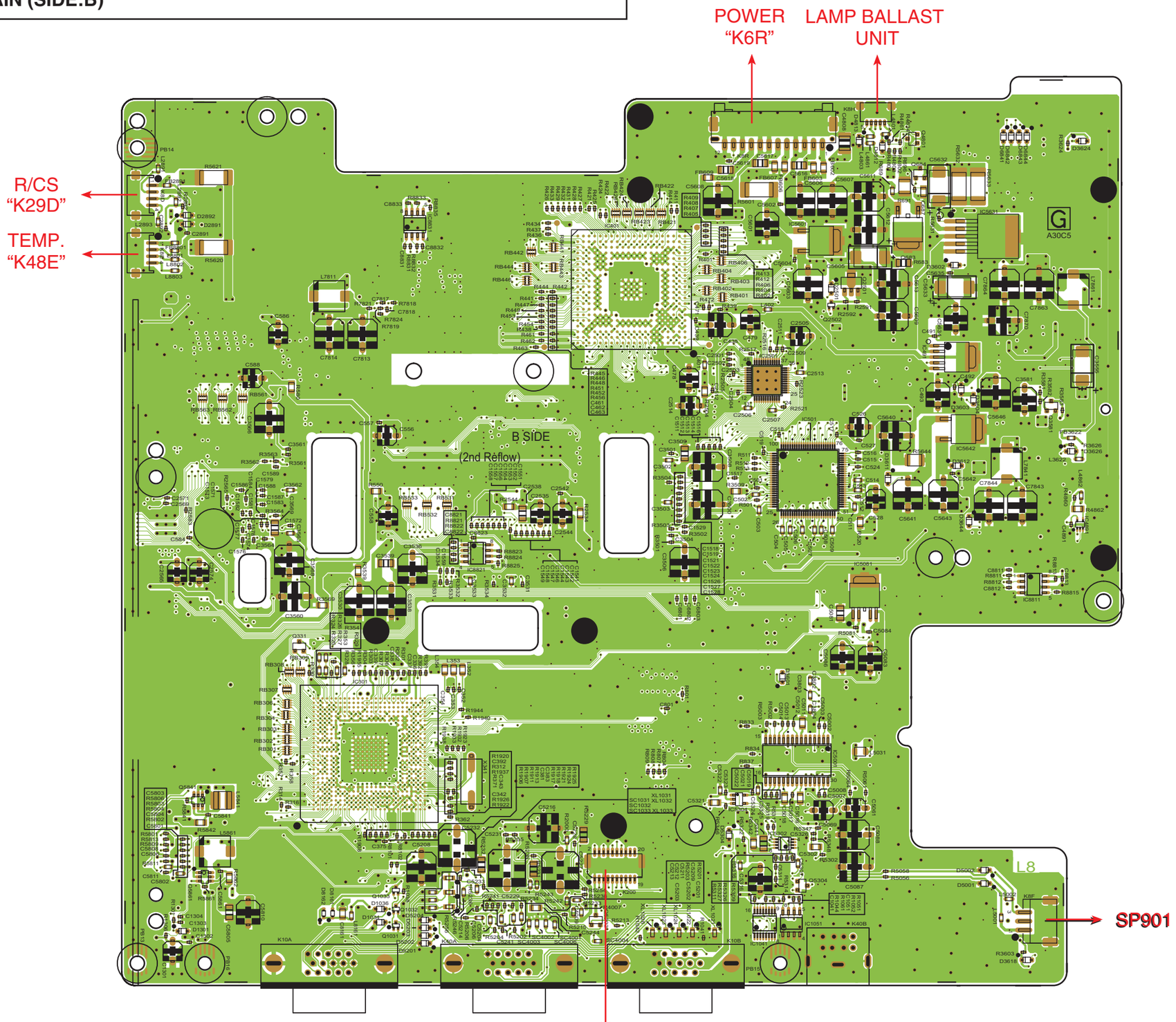
TEMP. (SIDE:B)



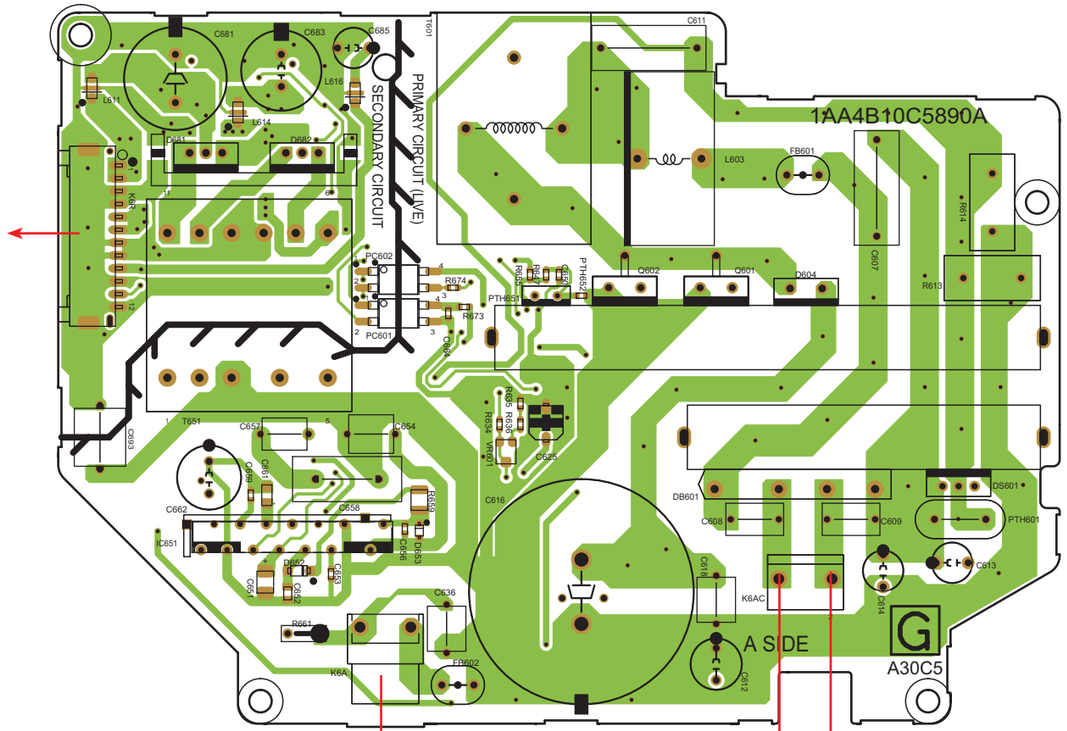
MAIN (SIDE:A)


1AA4B10C5920A
A SIDE(1st Reflow)
A30C5
FN902
FN901
LAMP COVER SW "K690"
FN907
FN905
FN904
FN903
POWER
COMPUTER2
COMPUTER1
MENU
VIDEO
SELECT

MAIN (SIDE:B)


POWER
“K6R”
LAMP BALLAST
UNIT
R/CS
“K29D”
TEMP.
“K48E”
B SIDE
(2nd Reflow)
SP901
AV
“K300”

POWER (SIDE:A)



MAIN
"K8R"

LAMP BALLAST
UNIT

THERMAL SW
SW902

LINE FILTER
"K6AB"

POWER (SIDE:B)